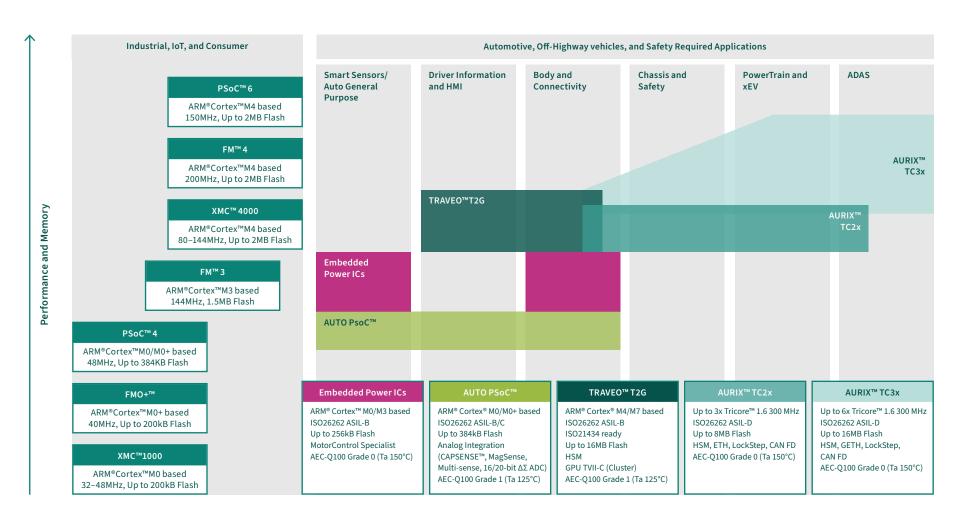


# Microcontroller pocket guide



#### Infineon Microcontrollers Portfolio



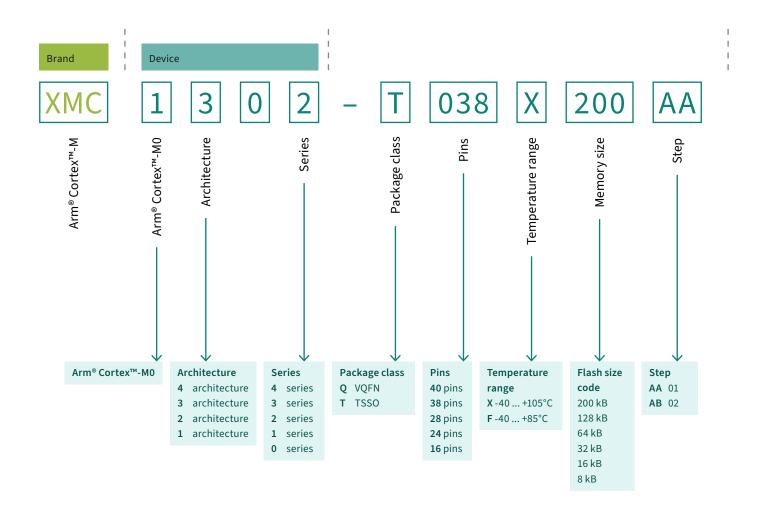
Note: AURIX™ is recommended for Industrial Applications that requires Safety ASIL-D and IEC 61508

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# Industrial IoT, and Consumer





	Mar- kets			Core		Co-p		System	1		De- bug			Mem	ory					Analog	<u> </u>	Т	imer,	/PWM			Co	mmun	ication	n				
Product type/partnumber	Automotive Industrial	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP	FPU	DMA	MPU	CRC PRNG Watchdon	Real-Time Clock SWD, SPD JTAG, Trace	Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC	RAM	Cache EEPROM emulationin flash	Data/IP protection Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC	Comparator	CCU4	ccus	HRPWM (150 ps) ΔΣ Demodulator	POSIF	BCCU/LED EtherCAT®	IEEE1588 Ethernet MAC CAN 2.0B nodes	SDIO/SD/MMC		OSIC  Quad SPI Quad SPI Cuad S	External Bus Unit (EBU)	LED display	Capacitive touch
XMC1100 S	eries																																	
XMC1100- T016F0008	- 0	TSSOP-16	14	Cortex®-M0	32		- 1		-	-   •   •	• • -	1.8 to 5.5	-40 to 85	8	-	16	-	-	64	1/1/7	-	_ 4	4 ch	-	-   -	-	-  -	-   -   -	-   -   2	2 ch		-	-	_
XMC1100- T016F0016	_ •	TSSOP-16	14	Cortex®-M0	32		- 1		-	- •	• • -	1.8 to 5.5	-40 to 85	16	-	16	- •	- •	64	1/1/7	-	_ 4	4 ch	-		-	-  -		- 2	2 ch		-	-	-
XMC1100- T016X0016	- •	TSSOP-16	14	Cortex®-M0	32		- 1		-	- •	• • -	1.8 to 5.5	-40 to 105	16	-	16	- •	- •	64	1/1/7	-	_ 4	4 ch	-		-	-  -		2	2 ch	• • • • • •	-	-	-
XMC1100- T016X0032	- •	TSSOP-16	14	Cortex®-M0	32		- 1		-	- 0	• • -	1.8 to 5.5	-40 to 105	32	-	16	- •	-	64	1/1/7	-	_ 4	4 ch	-		-	-  -	-   -   -	-   -   2	2 ch	• • • • • •	-	-	-
XMC1100- T016F0032	- •	TSSOP-16	14	Cortex®-M0	32	-   -	- 1		-	-   •	• • -	1.8 to 5.5	-40 to 85	32	-	16	- •	- •	64	1/1/7	-	_ 4	4 ch	-		-	-  -		-   -   2	2 ch	• • • • • •	-	-	_
XMC1100- T016F0064	- •	TSSOP-16	14	Cortex®-M0	32		- 1	-	-	- •	• • -	1.8 to 5.5	-40 to 85	64	-	16	- •	-	64	1/1/7	-	_ 4	4 ch	-	-   -	-	-  -	-   -   -	-   -   2	2 ch	• • • • • •	-	-	-
XMC1100- T016X0064	- •	TSSOP-16	14	Cortex®-M0	32	-   -	- 1		_	-   •	• • -	1.8 to 5.5	-40 to 105	64	-	16	- •	- •	64	1/1/7	-	_ 4	4 ch	-	-   -	-	-  -	-   -   -	-   -   2	2 ch	• • • • • •	-	-	
XMC1100- T038F0016	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1		-	-   •   •	• • -	1.8 to 5.5	-40 to 85	16	-	16	- •	- •	64	1/1/12	-	_ 4	4 ch	-	-   -	-	-  -	-   -   -	-   -   2	2 ch	• • • • • •	-	-	-
XMC1100- T038F0032	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1		-	-   •	• • -	1.8 to 5.5	-40 to 85	32	-	16	- •	- •	64	1/1/12	-	_ 4	4 ch	-	-   -	-	-  -	-   -   -	-   -   2	2 ch	• • • • • •	-	-	_
XMC1100- T038F0064	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1		-	-   •	• • -	1.8 to 5.5	-40 to 85	64	-	16	- •	- •	64	1/1/12	-	_ 4	4 ch	-	-   -	-	-  -	-   -   -	-   -   2	2 ch	• • • • • •	-	-	_
XMC1100- T038X0064	_   •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1		-	-   •   •	• • -	1.8 to 5.5	-40 to 105	64	-	16	- •	-	64	1/1/12	-	_ 4	4 ch	-		-	-  -	-   -   -	-   -   2	2 ch		_	-	_
XMC1100- Q024F0008	_	VQFN-24	22	Cortex®-M0	32	-   -	- 1		-	-   •   •	• • -	1.8 to 5.5	-40 to 85	64	-	16	-   •	-	64	1/1/9	-	_ 4	4 ch	-	-   -	-	-  -		-   -   2	2 ch	• • • • • •	-	-	_
XMC1100- Q024F0016	_	VQFN-24	22	Cortex®-M0	32		- 1		-	- 0	• • -	1.8 to 5.5	-40 to 85	16	-	16	-   •	- •	64	1/1/9	-	_ 2	4 ch	-		-	-  -		-   -   2	2 ch		-	-	
XMC1100- Q024X0016	- •	VQFN-24	22	Cortex®-M0	32		- 1		_	- 0	• • -	1.8 to 5.5	-40 to 105	16	-	16	- •	-	64	1/1/9	-	_ 4	4 ch	-	-   -	-	-  -	-   -	-   -   2	2 ch	• • • • • •	-	-	-
XMC1100- Q024F0032	_	VQFN-24	22	Cortex®-M0	32		- 1		-	_   •   •	• • -	1.8 to 5.5	-40 to 85	32	-	16	- 0	-	64	1/1/9	-	_ 4	4 ch	-		-	-  -	-   -   -	-   -   2	2 ch		-	-	_

	Mar- kets			Core		Co-p		ystem			De- bug			Mem	ory					Analog		Time	r/PWM			Com	munica	tion						
Product type/partnumber	Automotive Industrial	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP	FPU	DMA	MPU	PRNG Watchdog Real-Time Clock		Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC	Cache	EEPROM emulationin flash Data/IP protection	Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	Comparator	CCU4	ccus	HRPWM (150 ps) ΔΣ Demodulator	BCCU/LED	EtherCAT® IEEE1588 Ethernet MAC	CAN 2.0B nodes USB	Int د	Universerface	Conti	roller)	External Bus Unit (EBU)	LED display	Capacitive touch
XMC1100 Se	eries																																	
XMC1100- Q024F0064	- •	VQFN-24	22	Cortex®-M0	32	-   -	- 1	-			• -	1.8 to 5.5	-40 to 85	64	- 1	6 -		•	64	1/1/9 -	-   -	4 ch	-		-   -			- 2 ch	•	•	• •	• -	-	-
XMC1100- Q040F0016	- •	VQFN-40	34	Cortex®-M0	32		- 1	-			• -	1.8 to 5.5	-40 to 85	16	- 1	6 -		•	64	1/1/12 -		4 ch	-		-   -			- 2 ch	•	•	• •	• -	-	-
XMC1100- Q040F0032	- • •	VQFN-40	34	Cortex®-M0	32		- 1	-			• -	1.8 to 5.5	-40 to 85	32	- 1	6 -		•	64	1/1/12 -	-   -	4 ch	-		-   -			- 2 ch	• •	• •	• •	• -	-	-
XMC1100- Q040F0064	- •	VQFN-40	34	Cortex®-M0	32		- 1	-			• -	1.8 to 5.5	-40 to 85	64	- 1	6 -		•	64	1/1/12 -		4 ch	-		-   -			- 2 ch	•	•	• •	• -	-	-
XMC1200 Se	eries																																	
XMC1200- T038F0200	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1	-			• -	1.8 to 5.5	-40 to 85	200	- 1	6 -		•	64	1/2/12 -	- 3x	4 ch	-		-   -			- 2 ch	•	•	• •	• -	2x 64 segment	16 ch
XMC1201- T038F0016	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1	_			• -	1.8 to 5.5	-40 to 85	16	- 1	6 -		•	64	1/2/12 -	- 3x	4 ch	-		-   -		-   -   -	- 2 ch	•	•	• •	• -	2x 64 segment	16 ch
XMC1201- T038F0032	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1	-			• -	1.8 to 5.5	-40 to 85	32	- 1	6 -		•	64	1/2/12 -	- 3x	4 ch	-		-   -			2 ch	•	•	•	• -	2x 64 segment	16 ch
XMC1201- T038F0064	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1	-			• -	1.8 to 5.5	-40 to 85	64	- 1	6 -		•	64	1/2/12 -	- 3x	4 ch	-		-   -		-   -   -	- 2 ch	•	•	• •	• -	2x 64 segment	16 ch
XMC1201- T038F0128	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1	-			• -	1.8 to 5.5	-40 to 85	128	- 1	6 -		•	64	1/2/12 -	- 3x	4 ch	-		-   -		-   -   -	- 2 ch	•	•	•	• -	2x 64 segment	16 ch
XMC1201- T038F0200	- •	TSSOP-38	34	Cortex®-M0	32	-   -	- 1	-			• -	1.8 to 5.5	-40 to 85	200	- 1	6 -	-   •   -	•	64	1/2/12 -	- 3x	4 ch	-		-   -			- 2 ch	•	•	• •	• -	2x 64 segment	16 ch
XMC1201- Q040F0016	- •	VQFN-40	34	Cortex®-M0	32		- 1	-			• -	1.8 to 5.5	-40 to 85	16	- 1	6 -	• -	•	64	1/2/12 -	- 3x	4 ch	-					- 2 ch	• •	• •	• •	• -	2x 64 segment	16 ch
XMC1201- Q040F0032	- •	VQFN-40	34	Cortex®-M0	32		- 1	_	-		• -	1.8 to 5.5	-40 to 85	32	- 1	6 -		•	64	1/2/12 -	- 3x	4 ch	-		-			- 2 ch	•	•	• •	• -	2x 64 segment	16 ch
XMC1201- Q040F0064	- •	VQFN-40	34	Cortex®-M0	32		- 1	_			• -	1.8 to 5.5	-40 to 85	64	- 1	6 -		•	64	1/2/12 -	- 3x	4 ch	-		-   -			- 2 ch	•	•	•	• -	2x 64 segment	16 ch
XMC1201- Q040F0128		VQFN-40	34	Cortex®-M0	32	_   -	- 1	-			• -	1.8 to 5.5	-40 to 85	128	- 1	6 -		•	64	1/2/12 -	- 3x	4 ch	-		-   -		-   -   -	- 2 ch	•	•	•	• -	2x 64 segment	16 ch

	Mar- kets			Core		Co-		Systen	1			De- bug			Memo	ry					Analog		Time	r/PWM	l			Comm	unicat	ion						
Product type/partnumber	Automotive Industrial	Consumer	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV	FPU	DMA	MPU	PRNG	Watchdog Real-Time Clock		Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC.	in i	EEPROM emulationin flash Data/IP protection	Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC Comparator	CCU4	ccus	HRPWM (150 ps)	POSIF	BCCU/LED	EtherCAT® IEEE1588 Ethernet MAC CAN 2 OB nodes	USB SDIO/SD/MMC	Inte	Unive	T_ _	troller)	LIN External Bus Unit (EBU)	LED display	Capacitive touch
XMC1200 S	eries			<u>'</u>																										'						
XMC1201- Q040F0200	- •	VQFN-40	34	Cortex®-M0	32		1			-   •	•	• -	1.8 to 5.5	-40 to 85	200	- 10	6 -		•	64	1/2/12	- 3x	4 ch	-		-	-	-   -   -		2 ch	•	• •		• -	2x 64 segment	16 ch
XMC1201- T028F0016	- •	TSSOP-28	3 26	Cortex®-M1	32		1	-		-	• •	• -	1.8 to 5.5	-40 to 85	16	- 10	6 -		•	64	1/2/10	- 2x	4 ch	-		-	-			2 ch	•	•		• -	2x 64 segment	16 ch
XMC1201- T028F0032	- •	TSSOP-28	3 26	Cortex®-M1	32	-	-   -   1			- •	• •	• -	1.8 to 5.5	-40 to 85	32	- 10	6 -		•	64	1/2/10	- 2x	4 ch	-			-	-   -   -		2 ch	•		•	• -	2x 64 segment	16 ch
XMC1202- T016X0016	- •	TSSOP-10	5 14	Cortex®-M0	32		-   -   1			- •	• •	• -	1.8 to 5.5	-40 to 105	16	- 10	6 -		•	64	1/2/7	- 2x	4 ch	-		_	9 ch			2 ch	•	•		• -	-	_
XMC1202- T016X0032	- •	TSSOP-10	5 14	Cortex®-M0	32		1			-	•	• -	1.8 to 5.5	-40 to 105	32	- 10	6 -		•	64	1/2/7	- 2x	4 ch	-		-	9 ch			2 ch	•	•	• •	• -	-	_
XMC1202- T028X0016	- •	TSSOP-2	3 26	Cortex®-M0	32	-	1			- •	•	• -	1.8 to 5.5	-40 to 105	16	- 10	6 -		•	64	1/2/10	- 3x	4 ch	-		_	9 ch			2 ch	•	•	• •	• -	-	-
XMC1202- T028X0032	- •	TSSOP-28	3 26	Cortex®-M0	32		1			- •	•	• -	1.8 to 5.5	-40 to 105	32	- 10	6 -		•	64	1/2/10	- 3x	4 ch	-			9 ch			2 ch	•	•	• •	• -	-	_
XMC1202- T028X0064	- •	TSSOP-28	3 26	Cortex®-M0	32		1			- •	•	• -	1.8 to 5.5	-40 to 105	64	- 10	6 -		•	64	1/2/10	- 3x	4 ch	-		_	9 ch			2 ch	•	•		• -	-	-
XMC1202- Q024X0016	- •	• VQFN-24	22	Cortex®-M0	32		1			- •	•	• -	1.8 to 5.5	-40 to 105	16	- 10	6 -		•	64	1/2/9	- 3x	4 ch	-			9 ch			2 ch	•	•	• •	• -	-	_
XMC1202- Q024X0032	_   •	VQFN-24	22	Cortex®-M0	32		-   -   1			- 0	• •	• -	1.8 to 5.5	-40 to 105	32	- 10	6 -	-   •   -	•	64	1/2/9	- 3x	4 ch	-		-	9 ch			2 ch	•	•	• •	• -	-	_
XMC1202- Q040X0016	- •	VQFN-40	26	Cortex®-M0	32		-   -   1			-	• •	• -	1.8 to 5.5	-40 to 105	16	- 10	6 -		•	64	1/2/12	- 3x	4 ch	-			9 ch	-   -   -		2 ch	•	•	•	• -	-	-
XMC1202- Q040X0032	- •	VQFN-40	26	Cortex®-M0	32	-	1	-		- •	• •	• -	1.8 to 5.5	-40 to 105	32	- 10	6 -		•	64	1/2/12	- 3x	4 ch	-			9 ch			2 ch	•	• •		• -	-	-
XMC1202- T016X0064	- •	TSSOP-1	5 14	Cortex®-M0	32	-	1	-		-	•	• -	1.8 to 5.5	-40 to 106	64	- 10	6 -		•	64	1/2/7	- 2x	4 ch	-		-	-	- - -		2 ch	•	•		• -	-	-
XMC1300 S	eries																																			
XMC1301- T016F0008	-	TSSOP-10	5 14	Cortex®-M0	32		-   -   1			- •	•	• -	1.8 to 5.5	-40 to 85	8	- 10	6 -		•	64	1/2/7	– 2x	4 ch	4 ch	-	1x	-			2 ch	•	•		• -	-	_

	Mar- kets			Core		Co-p		System	1			De- bug			Memo	ry					Analog		Time	r/PWM	1		Co	mmun	nicatio	n				
Product type/partnumber	Automotive Industrial	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP	FPU	DMA	MPU	CRC	Watchdog Real-Time Clock	SWD, SPD JTAG, Trace	Supply voltage [V]	Operating temperature range TA [°C]	Flash	בור בייני	KAM Cache	EEPROM emulation in flash	Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC Comparator	CCU4	ccus	HRPWM (150 ps) ΔΣ Demodulator	POSIF BCCI/I FD		IEEE1588 Ethernet MAC CAN 2.0B nodes	SDIO/SD/MMC	Inte	Osic Controller Contro	al Bus Uni	LED display	Capacitive touch
XMC1300 S	eries																																	'
XMC1301- T016X0008	- •	TSSOP-16	14	Cortex®-M0	32	-   -	- :	1 -	-	- •	•	• -	1.8 to 5.5	-40 to 85	8 -	- 1	.6 –		-   •	64	1/2/7	- 2x	4 ch	4 ch		1x -	-	-   -   -	-   -   :	2 ch		• -	-	-
XMC1301- T016F0016	- •	TSSOP-16	14	Cortex®-M0	32		- :	1 -	-	_ •	• •	• -	1.8 to 5.5	-40 to 85	16	- 1	.6 –		-   •	64	1/2/7	- 2x	4 ch	4 ch		1x -	-		-   -   :	2 ch	• • • • •	• -	-	-
XMC1301- T016X0016	- •	TSSOP-16	14	Cortex®-M0	32		- :	1 -	-	_	• •	• -	1.8 to 5.5	-40 to 85	16	- 1	.6 –		-   •	64	1/2/7	- 2x	4 ch	4 ch		1x -	-	-   -	-   -   :	2 ch		• -	-	-
XMC1301- T016F0032	- •	TSSOP-16	14	Cortex®-M0	32		- :	1 -	-	_	• •	• -	1.8 to 5.5	-40 to 85	32	- 1	.6 –		-	64	1/2/7	- 2x	-	4 ch		1x -	-		-   -   :	2 ch		• -	-	-
XMC1301- T038F0008	- •	TSSOP-38	34	Cortex®-M0	32		- :	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 85	8 -	- 1	.6 –		-	64	1/2/12	- 3x	4 ch	4 ch		1x -	-	-   -	-   -   :	2 ch	• • • • •	• -	-	-
XMC1301- T038F0016	- •	TSSOP-38	34	Cortex®-M0	32		- :	1 -	-	_ •	• •	• -	1.8 to 5.5	-40 to 85	16	- 1	.6 –		- •	64	1/2/12	- 3x	4 ch	4 ch		1x -	-		-   -   :	2 ch	• • • • •	• -	-	-
XMC1301- T038F0032	- •	TSSOP-38	34	Cortex®-M0	32		- :	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 85	32	- 1	.6 –		-	64	1/2/12	- 3x	4 ch	4 ch		1x -	-	-   -   -	-   -   :	2 ch	• • • • •	• -	-	-
XMC1301- T038X0032	- •	TSSOP-38	34	Cortex®-M0	32		- :	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 85	32	- 1	.6 –	• -	- •	64	1/2/12	- 3x	4 ch	4 ch		1x -	-		-   -   :	2 ch	• • • • •	• -	-	-
XMC1301- T038F0064	- •	TSSOP-38	34	Cortex®-M0	32		- :	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 85	64	- 1	.6 –		-	64	1/2/12	- 3x	_	4 ch		1x -	-		-   -   :	2 ch		• -	-	-
XMC1301- T038X0064	- •	TSSOP-38	34	Cortex®-M0	32		- :	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 105	64	- 1	.6 –	• -	- •	64	1/2/12	- 3x	-	4 ch		1x -	-		-   -   :	2 ch	• • • • •	• -	-	-
XMC1301- Q024F0008	- •	VQFN-24	22	Cortex®-M0	32		- :	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 85	8 -	- 1	.6 –		-	64	1/2/9	- 3x	4 ch	4 ch		1x -	-	-   -	-   -   :	2 ch		• -	-	-
XMC1301- Q024F0016	- •	VQFN-24	22	Cortex®-M0	32		- :	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 85	16	- 1	.6 –		- •	64	1/2/9	- 3x	4 ch	4 ch	- -	1x -	-		-   -   :	2 ch	• • • • •	• -	-	-
XMC1301- Q040F0008	- •	VQFN-40	34	Cortex®-M0	32		- :	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 85	8	- 1	.6 –	•	-	64	1/2/12	- 3x	4 ch	4 ch	- -	1x -	-		-   -   :	2 ch		• -	-	-
XMC1301- Q040F0016	- •	VQFN-40	34	Cortex®-M0	32		- :	1 -	-	- •	•	• -	1.8 to 5.5	-40 to 85	16	- 1	.6 –	•	- •	64	1/2/12	- 3x	4 ch	4 ch		1x -	-	-   -	-   -   :	2 ch			-	-
XMC1301- Q040F0032	- •	VQFN-40	34	Cortex®-M0	32		- :	1 -	-	-	• •	• -	1.8 to 5.5	-40 to 85	32	- 1	.6 –	•	-	64	1/2/12	- 3x	4 ch	4 ch		1x -	-		:	2 ch		• -	-	_

	Mar- kets			Core		Co-p		System	1			e- ug			Memo	ry				,	Analog		Time	r/PWM			Commu	unicatio	on				
Product type/partnumber	Automotive Industrial	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP	FPU	DMA	MPU	CRC	Watchdog Real-Time Clock SWD, SPD	JTAG, Trace	Supply voltage [V]	Operating temperature range TA [°C]	Flash	RAM	e	EEPROM emulationin flash Data/IP protection			0.0	12-bit DAC Comparator	CCU4	ccus	HRPWM (150 ps) ΔΣ Demodulator	POSIF BCCU/LED	EtherCAT® IEEE1588 Ethernet MAC CAN 2.0B nodes	USB SDIO/SD/MMC	Inte	OSIC  Dual SPI  Quad SPI  Cuad SPI	External Bus Unit (EBU)	LED display	Capacitive touch
XMC1300 S	eries																																
XMC1302- T016X0008	- 0	TSSOP-16	14	Cortex®-M0	32	• -	- 1	L -	-	- •	• •	- 1	1.8 to 5.5	-40 to 105	8 -	16	-	• -	• 6	64	1/2/7	- 2x	4 ch	4 ch	:	Lx 9 ch			2 ch		-	-	-
XMC1302- T016X0016	_ •	TSSOP-16	14	Cortex®-M0	32	• -	- 1	L -	-	- •	• • •	- 1	L.8 to 5.5	-40 to 105	16 -	16	-	• -	• 6	54	1/2/7	- 2x	4 ch	4 ch	:	lx 9			2 ch		-	-	-
XMC1302- T016X0032	_ •	TSSOP-16	14	Cortex®-M0	32	• -	- 1	L -	-	-   •		- 1	L.8 to 5.5	-40 to 105	32 -	16	;  _	• -	• 6	54	1/2/7	- 2x	4 ch	4 ch	:	lx 9			2 ch		-	-	-
XMC1302- T028X0016	_ •	TSSOP-28	26	Cortex®-M0	32	• -	- 1	1 -	-	- •	• •	- 1	1.8 to 5.5	-40 to 105	16 -	16	i  -	• -	• 6	54 1	1/2/10	- 3x	4 ch	4 ch	:	lx 9			2 ch		-	-	_
XMC1302- T028X0032	- •	TSSOP-28	26	Cortex®-M0	32	• -	- 1	ı –	-	- •	• • •	- 1	L.8 to 5.5	-40 to 105	32 -	16	5 -	• -	• 6	54	L/2/10	- 3x	4 ch	4 ch	:	lx 9			2 ch		-	-	-
XMC1302- T028X0064	- •	TSSOP-28	26	Cortex®-M0	32	• -	- 1	۱ -	-	- •	• •	- 1	1.8 to 5.5	-40 to 105	64 -	16	5 -	• -	• 6	54	1/2/10	- 3x	4 ch	4 ch	:	lx 9			2 ch		-	-	-
XMC1302- T028X0128	- •	TSSOP-28	26	Cortex®-M0	32	• -	- 1	L -	-	- •	• • •	- 1	1.8 to 5.5	-40 to 105	128 -	16	-	• -	• 6	54 1	1/2/10	- 3x	4 ch	4 ch	:	Lx 9 ch			2 ch		-	-	-
XMC1302- T028X0200	- •	TSSOP-28	26	Cortex®-M0	32	• -	- 1	۱ -	-	- •	• • •	- 1	1.8 to 5.5	-40 to 105	200 -	16	-	• -	• 6	54 1	1/2/10	- 3x	4 ch	4 ch	:	Lx 9 ch			2 ch		-	-	-
XMC1302- T038X0016	- •	TSSOP-38	34	Cortex®-M0	32	• -	- 1	L -	-	- •	• •	- 1	L.8 to 5.5	-40 to 105	16 -	16	i -	• -	• 6	54 1	1/2/12	- 3x	4 ch	4 ch	:	lx 9 ch			2 ch		-	-	-
XMC1302- T038X0032	_ •	TSSOP-38	34	Cortex®-M0	32	• -	- 1	L -	-	- •	• • •	- 1	1.8 to 5.5	-40 to 105	32 -	16	i -	• -	• 6	54 1	L/2/12	- 3x	4 ch	4 ch	:	lx 9 ch			2 ch		-	-	-
XMC1302- T038X0064	- •	TSSOP-38	34	Cortex®-M0	32	• -	- 1	ı –	-	- •		- 1	L.8 to 5.5	-40 to 105	8 -	16	i  -	• -	• 6	54 1	1/2/12	- 3x	4 ch	4 ch	:	lx 9			2 ch		-	-	-
XMC1302- T038X0128	- •	TSSOP-38	34	Cortex®-M0	32	• -	- 1	ı -	-	- •	• •	- 1	L.8 to 5.5	-40 to 105	128 -	16	i  -	• -	• 6	54 1	1/2/12	- 3x	4 ch	4 ch	:	lx 9			2 ch		-	-	-
XMC1302- T038X0200	- •	TSSOP-38	34	Cortex®-M0	32	• -	- 1	L –	-	- •	• • •	- 1	1.8 to 5.5	-40 to 105	200 -	16	5 -	• -	• 6	54 1	1/2/12	- 3x	4 ch	4 ch	:	Lx 9 ch			2 ch		-	-	-
XMC1302- Q024F0016	- •	VQFN-24	22	Cortex®-M0	32	• -	- 1	L -	-	- •	• •	- 1	1.8 to 5.5	-40 to 85	16 -	16	-	• -	• 6	64	1/2/9	- 3x	4 ch	4 ch	:	Lx 9 ch			2 ch		-	-	-
XMC1302- Q024X0016	_ •	VQFN-24	22	Cortex®-M0	32	• -	- 1	L -	-	-	• •	- 1	L.8 to 5.5	-40 to 105	16 -	16	i _	• -	• 6	64	1/2/9	- 3x	4 ch	4 ch	:	lx 9 ch			2 ch		-	-	_

	Mar- kets				Core		Co-p		Syster	n			De- bug			Memo	ory					Analog		Time	r/PWM			Cor	nmunio	ation						
Product type/partnumber	Automotive Industrial	Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV	FPU	ERU	MPU	CRC	Watchdog	e clock	Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC	KAM Cache	EEPROM emulationin flash	Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC Comparator	CCU4	ccus	HRPWM (150 ps) ΔΣ Demodulator	POSIF BCCU/LED	EtherCAT®	CAN 2.0B nodes USB	SDIO/SD/MMC # channels ==	nterf			al Bus Uni	LED display	Capacitive touch
XMC1300 S	eries																																			
XMC1302- Q024F0032	- •	• VQF	FN-24	22	Cortex®-M0	32	• -	-	1 -	-	-	• • •	• -	1.8 to 5.5	-40 to 85	32	- 1	.6 –	• -	•	64	1/2/9	- 3x	4 ch	4 ch		1x 9 ch	-	-   -   -	- 2 c	h •	• •	• • •	• -	-	-
XMC1302- Q024X0032	- •	• VQF	FN-24	22	Cortex®-M0	32	• -	-	1 -	-	-	•	• -	1.8 to 5.5	-40 to 105	32	- 1	.6 –	• -	•	64	1/2/9	- 3x	4 ch	4 ch		1x 9 ch	-		- 2 c	h •	• •	• •	• -	-	-
XMC1302- Q024F0064	- •	• VQF	FN-24	22	Cortex®-M0	32	• -		1 -	-	-	•	• -	1.8 to 5.5	-40 to 85	64	- 1	.6 –	• -	•	64	1/2/9	- 3x	4 ch	4 ch		1x 9 ch	-	-   -   -	- 2 c	h •	• •	• •	• -	-	-
XMC1302- Q024X0064	- •	• VQF	FN-24	22	Cortex®-M0	32	• -	-	1 -	-	-	•	• -	1.8 to 5.5	-40 to 105	64	- 1	.6 –	• -		64	1/2/9	- 3x	4 ch	4 ch		1x 9 ch	-		- 2 c	h •	• •	• •	• -	-	-
XMC1302- Q040X0016	- •	• VQF	FN-40	34	Cortex®-M0	32	• -	-	1 -	-	- •	• •	• -	1.8 to 5.5	-40 to 105	16	- 1	.6 –	• -		64	1/2/12	- 3x	4 ch	4 ch		1x 9 ch			- 2 c	h •	• •	• • •	• -	-	-
XMC1302- Q040X0032	- •	• VQI	FN-40	26	Cortex®-M0	32	• -	-	1 -	-	-	• •	• -	1.8 to 5.5	-40 to 105	32	- 1	.6 –	• -		64	1/2/12	- 3x	4 ch	4 ch		1x 9 ch		-   -   -	- 2 c	h •	• •	• • •	• -	-	-
XMC1302- Q040X0064	- •	• VQF	FN-40	34	Cortex®-M0	32	• -	-	1 -	-	-	•	• -	1.8 to 5.5	-40 to 105	64	- 1	.6 –	• -	•	64	1/2/12	- 3x	4 ch	4 ch		1x 9 ch		-   -   -	- 2 c	h •	• •	• • •	• -	-	-
XMC1302- Q040X0128	- •	• VQF	FN-40	34	Cortex®-M0	32	• -	-	1 -	-	-	•	• -	1.8 to 5.5	-40 to 105	128	- 1	.6 –	• -	•	64	1/2/12	- 3x	4 ch	4 ch		1x 9 ch	-	-   -   -	- 2 c	h •	• •	• • •	• -	-	-
XMC1302- Q040X0200	- •	• VQF	FN-40	34	Cortex®-M0	32	• -	-	1 -	-	-	•	• -	1.8 to 5.5	-40 to 105	200	- 1	.6 –	• -	•	64	1/2/12	- 3x	4 ch	4 ch		1x 9 ch	-		- 2 c	h •	• •	• • •	• -	-	-
XMC1400 S	eries																																			
XMC1401- Q048F0064	- •	• VQF	FN-48	42	Cortex®-M0	48		-   -	1 -	-	- 4	• •	• -	1.8 to 5.5	-40 to 85	128	- 1	.6 –	• -	•	96	1/2/12	-   -	8 ch	-		-   -	-	-   -   -	- 4 c	h •	• •	• •	• -	3x 64 segment	24 ch
XMC1401- Q048F0128	- •	• VQF	FN-48	42	Cortex®-M0	48		-	1 -	-	-	•	• -	1.8 to 5.5	-40 to 85	128	- 1	.6 –	• -		96	1/2/12		8 ch	-		-   -	-	-   -   -	- 4 c	h •	• •	• •	• -	3x 64 segment	24 ch
XMC1401- F064F0064	- •	• LQI	FP-64	55	Cortex®-M0	48		-	1 -	-	- 4	• •	• -	1.8 to 5.5	-40 to 85	64	- 1	.6 –	• -		96	1/2/12		8 ch	-		-   -	-		- 4 c	h •	• •		• -	3x 64 segment	24 ch
XMC1401- F064F0128	- •	• LQI	FP-64	55	Cortex®-M0	48		-	1 -	-	-	•	• -	1.8 to 5.5	-40 to 85	128	- 1	.6 –	• -		96	1/2/12		8 ch	-		-   -	-	-   -   -	- 4 c	h •	• •	• • •	• -	3x 64 segment	24 ch
XMC1402- T038X0032	- •	• TSS	OP-38	34	Cortex®-M0	48	• -	-	1 -	-	-	•	• -	1.8 to 5.5	-40 to 105	32	- 1	.6 –	• -	•	96	1/2/12	- 3x	8 ch	8 ch		2x 9 ch	-		- 4 c	h •	• •	• •	• -	-	-

	Mar- kets			Core		Co-p		System	1			e- ug			Memo	ry					Analog		Time	r/PWM			Commu	unicatio	on				
Product type/partnumber	Automotive Industrial	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP	FPU	DMA	MPU	PRNG	Watchdog Real-Time Clock SWD, SPD	, Trace	Supply voltage [V]	Operating temperature range TA [°C]	Flash	RAM	ā	EEPROM emulationin flash Data/IP protection		eriph	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC Comparator	CCU4	ccus	HRPWM (150 ps) ΔΣ Demodulator	POSIF BCCU/LED	EtherCAT® IEEE1588 Ethernet MAC CAN 2.0B nodes	USB SDIO/SD/MMC	unels	Osic Dual SPI Care Controller)  Ouad SPI Care Controller)  Ouad SPI Care Controller)  Ouad SPI Care Care Care Care Care Care Care Care	External Bus Unit (EBU)	LED display	Capacitive touch
XMC1400 Se	ries																				•												
XMC1402- T038X0064		TSSOP-38	34	Cortex®-M0	48	• -	- 1	L -	-	-   •	• •	-	1.8 to 5.5	-40 to 105	64 -	- 16	5 -	• -	• !	96	1/2/12	- 3x	8 ch	8 ch	:	2x 9 ch			4 ch		-	-	-
XMC1402- T038X0128	- •	TSSOP-38	34	Cortex®-M0	48	• -	- 1	L -	-	-   •	• •	-	1.8 to 5.5	-40 to 105	128 -	- 16	5 -	• -	• 9	96	1/2/12	- 3x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- T038X0200	- •	TSSOP-38	34	Cortex®-M0	48	• -	- 1	L -	-	-   •	• •	-	1.8 to 5.5	-40 to 105	200 -	- 16	5 -	• -	• !	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q040X0032	- •	VQFN-40	35	Cortex®-M0	48	• -	- 1	ı -	-	- •	• • •	-	1.8 to 5.5	-40 to 105	32 -	- 16	5 -	• -	• !	96	1/2/12	- 3x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q040X0064	- • •	VQFN-40	35	Cortex®-M0	48	• -	- 1	ı –	-	-   •	• • •	-	1.8 to 5.5	-40 to 105	64 -	- 16	5 -	• -	• !	96	1/2/12	- 3x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q040X0128	- •	VQFN-40	35	Cortex®-M0	48	• -	- 1	L -	_	- •	• •	-	1.8 to 5.5	-40 to 105	128 -	- 16	5 -	• -	•	96	1/2/12	- 3x	8 ch	8 ch	:	2x 9 ch			4 ch		-	-	-
XMC1402- Q040X0200	- • •	VQFN-40	35	Cortex®-M0	48	• -	- 1	L -	-	-   •	• • •	-	1.8 to 5.5	-40 to 105	200 -	- 16	5 -	• -	• !	96	1/2/12	- 3x	8 ch	8 ch	:	2x 9 ch			4 ch		-	_	-
XMC1402- Q048X0032	- •	VQFN-48	42	Cortex®-M0	48	• -	- 1	۱ -	-	-   •	• •	-	1.8 to 5.5	-40 to 105	32 -	- 16	5 -	• -	• !	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q048X0064	- •	VQFN-48	42	Cortex®-M0	48	• -	- 1	L -	-	- •	• •	-	1.8 to 5.5	-40 to 105	64 -	- 16	5 -	• -	• !	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q048X0128	- •	VQFN-48	42	Cortex®-M0	48	• -	- 1	ı -	-	-   •	• •	-	1.8 to 5.5	-40 to 105	128 -	- 16	5 -	• -	• !	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q048X0200	- •	VQFN-48	42	Cortex®-M0	48	• -	- 1	ı –	-	- •	• • •	-	1.8 to 5.5	-40 to 105	200 -	- 16	5 -	• -	• !	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q064X0064	- •	VQFN-64	55	Cortex®-M0	48	• -	- 1	ı –	-	-   •	• •	-	1.8 to 5.5	-40 to 105	64 -	- 16	5 -	• -	• !	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q064X0128	- •	VQFN-64	55	Cortex®-M0	48	• -	- 1	L -	-	- •	• •	-	1.8 to 5.5	-40 to 105	128 -	- 16	5 -	• -	•	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- Q064X0200	- •	VQFN-64	55	Cortex®-M0	48	• -	- 1	L -	-	-   •	• •	-	1.8 to 5.5	-40 to 105	200 -	- 16	5 -	• -	•	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	-
XMC1402- F064X0064	- •	LQFP-64	55	Cortex®-M0	48	• -	- 1	L -	-	-	• •	-	1.8 to 5.5	-40 to 105	64 -	- 16	5 -	• -	• !	96	1/2/12	- 4x	8 ch	8 ch		2x 9 ch			4 ch		-	-	_

	Mar- kets			Core		Co-p		System	1			De- bug			Memo	ry					Analog		Time	r/PWM				Commu	nicatio	on					
Product type/partnumber	Automotive Industrial Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP	FPU	DMA	MPU	CRC	Watchdog Real-Time Clock	SWD, SPD JTAG, Trace	Supply voltage [V]	Operating temperature range TA [°C]	Flash	RAM	Cache	EEPROM emulationin flash	Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC Comparator	CCU4	ccus	HRPWM (150 ps)	POSIF	BCCU/LED	EtherCAT® IEEE1588 Ethernet MAC CAN 2.0B nodes	USB SDIO/SD/MMC		USI- Jniversa erface Co		LIN External Bus Unit (EBU)	LED display	Capacitive touch
XMC1400 S	eries																																		
XMC1402- F064X0128	-   •   •	LQFP-64	55	Cortex®-M0	48	• -	- 1		-	_   •	• •	• -	1.8 to 5.5	-40 to 105	128 -	- 16	6 -	• -	•	96	1/2/12	- 4x	8 ch	8 ch		2x	9 ch	-   -   -	-   -	4 ch	• •		• -	-	-
XMC1402- F064X0200	- • •	LQFP-65	55	Cortex®-M0	48	• -	- 1	-	-	- •	• •	• -	1.8 to 5.5	-40 to 105	200 -	- 16	6 -	• -	•	96	1/2/12	- 4x	8 ch	8 ch		2v	9 ch		-   -	4 ch	• •	• • •	• -	-	-
XMC1403- Q048X0064	- •	VQFN-48	42	Cortex®-M0	48	-   -	- 1		-	_	• •	• -	1.8 to 5.5	-40 to 105	64 -	- 16	6 -	• -	•	96	1/2/12		8 ch	-		-	-	2	-   -	4 ch	• •	• • •	• -	-	_
XMC1403- Q048X0128	- •	VQFN-48	42	Cortex®-M0	48	-   -	- 1	_	-	- •	• •	• -	1.8 to 5.5	-40 to 105	128 -	- 10	6 –	• -	•	96	1/2/12	-   -	8 ch	-		-	-	2	-   -	4 ch	• •	• • •	• -	-	-
XMC1403- Q048X0200	- • •	VQFN-48	42	Cortex®-M0	48	-   -	- 1		-	- •	• •	• -	1.8 to 5.5	-40 to 105	200 -	- 16	6 –	• -	•	96	1/2/12	-   -	8 ch	-		_	-	2	-   -	4 ch	• • •	• • •	• -	-	_
XMC1403- Q064X0064	- • •	VQFN-64	55	Cortex®-M0	48		- 1		-	- •	• •	• -	1.8 to 5.5	-40 to 105	64 -	- 16	6 –	• -	•	96	1/2/12	-   -	8 ch	-		-	-	2	-   -	4 ch	• • •	• • •	• -	-	-
XMC1403- Q064X0128	- •	VQFN-64	55	Cortex®-M0	48	-   -	- 1		-	_   •	• •	• -	1.8 to 5.5	-40 to 105	128 -	- 16	6 –	• -	•	96	1/2/12	-   -	8 ch	-		-	-	-   -   2	-   -	4 ch	• •	• • •	• -	-	_
XMC1403- Q064X0200	- •	VQFN-64	55	Cortex®-M0	48	-   -	- 1	_	-	- •	• •	• -	1.8 to 5.5	-40 to 105	200 -	- 16	6 –	• -	•	96	1/2/12	-   -	8 ch	-		-	-	2	-   -	4 ch	• •	• • •	• -	-	-
XMC1404- Q048X0064	- •	VQFN-48	42	Cortex®-M0	48	• -	- 1	-	-	-   •	• •	• -	1.8 to 5.5	-40 to 105	64 -	- 10	6 -	• -	•	96	1/2/12	- 4x	8 ch	8 ch			9 ch	2	-   -	4 ch	• •	• •	• -	3x 64 segment	24 ch
XMC1404- Q048X0128	- •	VQFN-48	42	Cortex®-M0	48	• -	- 1	_	-	-   •	• •	• -	1.8 to 5.5	-40 to 105	128 -	- 10	6 –	• -	•	96	1/2/12	- 4x	8 ch	8 ch		7v	9 ch	2	-   -	4 ch	• •	• • •	• -	3x 64 segment	24 ch
XMC1404- Q048X0200	- •	VQFN-48	42	Cortex®-M0	48	• -	- 1		-	_   •	• •	• -	1.8 to 5.5	-40 to 105	200 -	- 10	6 –	• -	•	96	1/2/12	- 4x	8 ch	8 ch		- 'V	9 ch	2	-   -	4 ch	• •	• •	• -	3x 64 segment	24 ch
XMC1404- Q064X0064	- •	VQFN-64	55	Cortex®-M0	48	• -	- 1		-	_	• •	• -	1.8 to 5.5	-40 to 105	64 -	- 10	6 -	• -	•	96	1/2/12	- 4x	8 ch	8 ch		- 'V	9 ch	2	-   -	4 ch	• •	• •	• -	3x 64 segment	24 ch
XMC1404- Q064X0128	- •	VQFN-64	55	Cortex®-M0	48	• -	- 1	_	-	-	• •	• -	1.8 to 5.5	-40 to 105	128 -	- 10	6 –	• -	•	96	1/2/12	- 4x	8 ch	8 ch			9 ch	2		4 ch	• •	• •	• -	3x 64 segment	24 ch
XMC1404- Q064X0200	- •	VQFN-64	55	Cortex®-M0	48	• -	- 1	-	-	- •	• •	• -	1.8 to 5.5	-40 to 105	200 -	- 16	6 –	• -	•	96	1/2/12	- 4x	8 ch	8 ch			9 ch	2	-   -	4 ch	• •	• • •	• -	3x 64 segment	24 ch
XMC1404- F064X0064	_   •   •	LQFP-64	55	Cortex®-M0	48	• -	- 1		-	_	• •	• -	1.8 to 5.5	-40 to 105	64 -	- 16	6 -	• -	•	96	1/2/12	- 4x	8 ch	8 ch			9 ch	2	-   -	4 ch	• •	• • •	• -	3x 64 segment	24 ch

	Mar- kets			Core		Co-p		ystem				e- ug			Mem	ory				A	Inalog		Time	r/PWM				Com	munic	ation	1						
Product type/partnumber	Automotive Industrial Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV	FPU ERU	DMA	MPU	PRNG Watchdog	Real-Time Clock SWD, SPD	JTAG, Trace	Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC	RAM	Cacne EEPROM emulationin flash Data/IP protection	Secure bootloader	Periplierals Clock [MHz] No. of 12-bit ADC/	No. of sample and hold/ No. of inputs 12-bit DAC	Comparator	CCU4	ccus	HRPWM (150 ps) ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT® IEEE1588 Ethernet MAC	CAN 2.0B nodes USB	SDIO/SD/MMC		niver	Quad SPI Sal Se Contr		External Bus Unit (EBU)	LED display	Capacitive touch
XMC1400 S	eries																																				
XMC1404- F064X0128	- •	●QFP-64	55	Cortex®-M0	48	• -	- 1	-		•		-	1.8 to 5.5	-40 to 105	128	-	16		• 9	6 1	/2/12 -	4x	8 ch	8 ch		2x	9 ch	-   -	2 -	- 4	ch	• •	• •	• •	• -	3x 64 segment	24 ch
XMC1404- F064X0200	- •	●QFP-64	55	Cortex®-M0	48	• -	- 1	-		•	•	-	1.8 to 5.5	-40 to 105	200	-	16		• 9	6 1	/2/12 -	4x	8 ch	8 ch		2x	9 ch		2 -	- 4	ch	•	• •	•	• -	3x 64 segment	24 ch

**BCCU** = Brightness and Color Control Unit for LED lighting

**CCU** = Capture Compare Unit

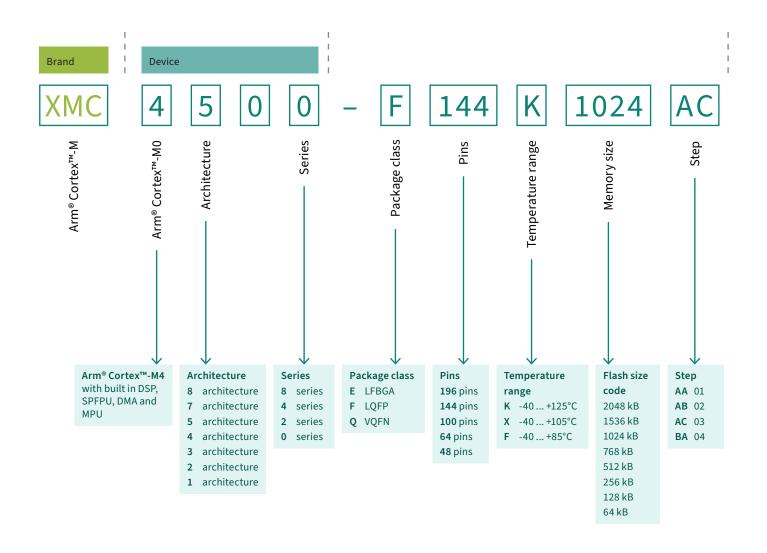
**FPU** = Floating Point Unit

MMC = Multi Media Card

**POSIF** = Motor Position Interface

**SDIO** = SD Card Interface with Input/Output

USIC = UART/SCI, SPI, Dual-SPI, Quad-SPI, IIC/I<sup>2</sup>C, IIS/I<sup>2</sup>S, LIN



	Mar- kets				Core		Co-	pro- sor	Syst	em				De- bug			Mem	ory					Analo	g	1	Timer/	PWM				Comr	nunic	atio	1							
Product type/partnumber	Automotive Industrial	Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV	FPU	ERU	DMA	MPU	PRNG	Real-Time Clock	SWD, SPD	Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC	RAM	Cache EEPROM emulationin flash	ᆈᄚ	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/	12-bit DAC	Comparator	CCU4	ccus	HRPWM (150 ps) ΔΣ Demodulator	POSIF	BCCU/LED	EtnerCAI © IEEE1588 Ethernet MAC	CAN 2.0B nodes USB	SDIO/SD/MMC		Usur IdS Indiversion IdS Indiv			al Bus Uni		LED display	Capacitive touch
XMC4100 S	eries																																								
XMC4108- Q48K64	-	•	VQFN-48	30	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 125	64	•	20	1 •	• -	80	2/2/8	2 ch	-	8 ch	4 ch		1x	-	-   -	1 -	_ 2	l ch	• •	•	• •	• -		-	-
XMC4108- F64K64	-	•	TQFP-64	45	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	• •	3.13 to 3.63	-40 to 125	64	•	20	1 •	• -	80	2/2/9	2 ch	-	8 ch	4 ch		1x	-	-   -	1 -	_ 4	l ch	• •	•	•	• -		-	-
XMC4104- Q48F64	-	•	VQFN-48	30	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 85	64	•	20	1 •	• -	80	2/2/8	2 ch	-	8 ch	4 ch	• -	1x	-	-   -		_ 4	l ch	•	•	•	• -	1x 64	segment	8 ch
XMC4104- Q48F128	-	•	VQFN-48	30	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	• •	3.13 to 3.63	-40 to 85	128	•	20	1 •	• -	80	2/2/8	2 ch	-	8 ch	4 ch	• -	1x	-	-   -	-   -	_ 4	l ch	•	•	• •	• -	1x 64	segment	8 ch
XMC4104- Q48K64	-	•	VQFN-48	30	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 125	64	•	20	1 •	• -	80	2/2/8	2 ch	-	8 ch	4 ch	• -	1x	-	-   -		_ 4	l ch	• •	•	• •	• -	1x 64	segment	8 ch
XMC4104- Q48K128	-	•	VQFN-48	30	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 125	128	•	20	1 •	• -	80	2/2/8	2 ch	-	8 ch	4 ch	• -	1x	-	-   -	-   -	_ 4	l ch	•	•	• •	• -	1x 64	segment	8 ch
XMC4104- F64F64	-	•	TQFP-64	45	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	• •	3.13 to 3.63	-40 to 85	64	•	20	1 •	• -	80	2/2/9	2 ch	-	8 ch	4 ch	• -	1x	-	-   -		_ 4	l ch	• •	•	• •	• -	1x 64	segment	8 ch
XMC4104- F64F128	- •	•	TQFP-64	45	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	• •	3.13 to 3.63	-40 to 85	128	•	20	1 •	• -	80	2/2/9	2 ch	-	8 ch	4 ch	• -	1x	-	-   -	-   -	_ 4	l ch	•	•	• •	• -	1x 64	segment	8 ch
XMC4104- F64K64	- •	•	TQFP-64	45	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 125	64	•	20	1 •	• -	80	2/2/9	2 ch	-	8 ch	4 ch	• -	1x	-	-   -		_ 4	l ch	• •	• •	• •	• -	1x 64	segment	8 ch
XMC4104- F64K128	- •	•	TQFP-64	45	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 125	128	•	20	1 •	• -	80	2/2/9	2 ch	-	8 ch	4 ch	• -	1x	-	-   -	-   -	_ 4	l ch	• •	•	• •	• -	1x 64	segment	8 ch
XMC4100- Q48F128	- •	•	VQFN-48	30	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 85	128	•	20	1 •	• -	80	2/2/8	2 ch	-	8 ch	4 ch	• -	1x	-	-   -	2 •	_ 4	l ch	•	• •	• •	• -	1x 64	segment	8 ch
XMC4100- Q48K128	- •	•	VQFN-48	30	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 125	128	•	20	1 •	• -	80	2/2/8	2 ch	-	8 ch	4 ch	• -	1x	-	-   -	2 •	_ 4	l ch	•	•	• •	• -	1x 64	segment	8 ch
XMC4100- F64F128	- •	•	TQFP-64	45	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 85	128	•	20	1 •	• -	80	2/2/9	2 ch	-	8 ch	4 ch	• -	1x	-	-   -	2 •	_ 4	l ch	• •	•	• •	• -	1x 64	segment	8 ch
XMC4100- F64K128	-	•	TQFP-64	45	Cortex®-M4	80	-	•	2 8	ch	1 1	•	•	•	3.13 to 3.63	-40 to 125	128	•	20	1 •	• -	80	2/2/9	2 ch	-	8 ch	4 ch	• -	1x	-	-   -	2 •	_ 2	l ch	•	• •	•	• -	1x 64	segment	8 ch

	Mar- kets			Core		Co-pr		ystem			De- bug			Memo	ory					Analog	g	Time	er/PWM	1			Con	nmur	nicati	on						
Product type/partnumber	Automotive Industrial Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP	FPU	DMA	MPU	PRNG	Watchdog Real-Time Clock SWD, SPD	Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC	RAM	Cache EEPROM emulationin flash	Data/IP protection Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC	CCU4	ccus	HRPWM (150 ps)	ΔΣ Demodulator	POSIF BCCU/LED	EtherCAT®	CAN 2.0B nodes	SDIO/SD/MMC		Univer erface			LIN External Bus Unit (EBU)	LED display	Capacitive touch
XMC4200 S	eries																																			
XMC4200- Q48F256	- •	VQFN-48	30	Cortex®-M4	80	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 85	256	•	40	1 •	• -	80	2/2/8	2 ch -	8 ch	4 ch	•	-	1x -	-   -	2	• -	4 ch	• •	•	• •	• -	1x 64 segment	8 ch
XMC4200- Q48K256	- •	VQFN-48	30	Cortex®-M4	80	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 125	256	•	40	1 •	• -	80	2/2/8	2 ch -	8 ch	4 ch	•	-	1x -		2	• -	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4200- F64F256	- • •	TQFP-64	45	Cortex®-M4	80	- •	• 2	8 ch	1 1	•		3.13 to 3.63	-40 to 85	256	•	40	1 •	• -	80	2/2/9	2 ch -	8 ch	4 ch	•	-	1x -	-   -	2	• -	4 ch	• •	• •		• -	1x 64 segment	8 ch
XMC4200- F64K256	- • •	TQFP-64	45	Cortex®-M4	80	- •	• 2	8 ch	1 1	•		3.13 to 3.63	-40 to 125	256	•	40	1 •	• -	80	2/2/9	2 ch -	8 ch	4 ch	•	-	1x -		2	• -	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4300 S	eries																																			
XMC4300- F100F256		LQFP-100	75	Cortex®-M4	144	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 85	256	• 3	128	8 •	• -	144	2/2/14	2 ch -	8 ch	4 ch	-	-	-  -	ιι	2	•   •	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4300- F100K256	- • -	LQFP-100	75	Cortex®-M4	144	- •	• 2	8 ch	1 1	•	• • • •	3.13 to 3.63	-40 to 125	256	• :	128	8 •	• -	144	2/2/14	2 ch -	8 ch	4 ch	-	-		ιι	2	• •	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4400 S	eries																																			
XMC4402- F64F256	- •	TQFP-64	41	Cortex®-M4	120	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 85	256	•	80	4 •	• -	120	4/4/9	2 ch -	16 cł	8 ch	•	4 ch	2x -	-   -	2	• -	4 ch	• •	• •	•	• -	1x 64 segment	8 ch
XMC4402- F64K256	- •	TQFP-64	41	Cortex®-M4	120	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 125	256	•	80	4 •	• -	120	4/4/9	2 ch -	16 cł	8 ch	•	4 ch	2x -		2	• -	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4402- F100F256	- • •	LQFP-100	75	Cortex®-M4	120	- •	• 2	8 ch	1 1	•	• • • •	3.13 to 3.63	-40 to 85	256	•	80	4 •	• -	120	4/4/18	2 ch -	16 cł	8 ch	•	4 ch	2x -	-   -	2	• -	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4402- F100K256	- • •	LQFP-100	75	Cortex®-M4	120	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 125	256	•	80	4 •	• -	120	4/4/18	2 ch -	16 cł	8 ch	•	4 ch	2x -	-   -	2	• -	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4400- F64F256	- • •	TQFP-64	41	Cortex®-M4	120	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 85	256	•	80	4 •	• -	120	4/4/9	2 ch -	16 cł	8 ch	•	4 ch	2x -	- l	2	• -	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4400- F64F512	- • •	TQFP-64	41	Cortex®-M4	120	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 85	512	•	80	4 •	• -	120	4/4/9	2 ch -	16 cł	8 ch	•	4 ch	2x -	- l	2	• -	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch
XMC4400- F64K256	- • •	TQFP-64	41	Cortex®-M4	120	- •	• 2	8 ch	1 1	•	• • •	3.13 to 3.63	-40 to 125	256	•	80	4 •	• -	120	4/4/9	2 ch -	16 cł	n 8 ch	•	4 ch	2x -	- l	2	• -	4 ch	• •	• •	• •	• -	1x 64 segment	8 ch

	Mar- kets			Core		Co-p		ystem			De- bug			Mem	ory					Ana	alog		Time	er/PWM	1			Co	mmı	unicat	ion						
Product type/partnumber	Automotive Industrial	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP	FPU	DMA	MPU	PRNG	Watchdog Real-Time Clock SWD, SPD	Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC	RAM	Cache EEDDOM consulationin flack		Peripherals clock [MHz]	No. of 12-bit ADC/		12-bit DAC	CCU4	ccus	HRPWM (150 ps)	ΔΣ Demodulator	POSIF BCCI/I FD	EtherCAT®	IEEE1588 Ethernet MAC CAN 2.0B nodes	USB SDIO/SD/MMC	Int	Unive	I SPI		LIN (EXternal Bus Unit (EBU)	LED display	Capacitive touch
XMC4400 S	eries												•																								
XMC4400- F64K512	- •	TQFP-64	41	Cortex®-M4	120	- •	• 2	8 ch	1 1	. •	• • • •	3.13 to 3.63	-40 to 125	512	•	80	4	• • -	- 120	0 4/4	/9 2	ch –	16 cł	8 ch	•	4 ch	2x -	-	• 2	• -	4 ch		, •	• •	• -	1x 64 segme	nt 8 ch
XMC4400- F100F256	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	8 ch	1 1	. •	• • •	3.13 to 3.63	-40 to 85	256	•	80	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	•	4 ch	2x -	-	• 2	• -	4 ch	•		• •	• -	1x 64 segme	nt 8 ch
XMC4400- F100F512	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	8 ch	1 1		• • • •	3.13 to 3.63	-40 to 85	512	•	80	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	•	4 ch	2x -	-	• 2	• -	4 ch	•		• •	• -	1x 64 segme	nt 8 ch
XMC4400- F100K256	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	8 ch	1 1	.   •	• • • •	3.13 to 3.63	-40 to 125	256	•	80	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	•	4 ch	2x -	-	• 2	• -	4 ch	•		•	• -	1x 64 segme	nt 8 ch
XMC4400- F100K512	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	8 ch	1 1	.   •	• • •	3.13 to 3.63	-40 to 125	512	•	80	4	• -	- 120	0 4/4	/18 2	ch -	16 cł	8 ch	•	4 ch	2x -	-	• 2	• -	4 ch	•	•	•	• -	1x 64 segme	nt 8 ch
XMC4500 S	eries																																				
XMC4504- F100F512	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	12 ch	1 1		• • •	3.13 to 3.63	-40 to 85	512	•	128	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	-	4 ch	2x -	-	-   -	-	6 ch	•		•	• •	1x 64 segme	nt 8 ch
XMC4504- F100K512	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	12 ch	1 1	.  •	• • •	3.13 to 3.63	-40 to 125	512	•	128	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	-	4 ch	2x -	-	-   -	- •	6 ch	•	•	•	•	1x 64 segmen	nt 8 ch
XMC4504- F144F512	- •	LQFP-144	119	Cortex®-M4	120	- •	• 2	12 ch	1 1	.   •	• • • •	3.13 to 3.63	-40 to 85	512	•	128	4	• -	- 120	0 4/4	/26 2	ch –	16 cł	8 ch	-	4 ch	2x -	-	-   -	-	6 ch	•	•		•	1x 64 segme	nt 8 ch
XMC4504- F144K512	- •	LQFP-144	119	Cortex®-M4	120	- •	• 2	12 ch	1 1	.   •	• • • •	3.13 to 3.63	-40 to 125	512	•	128	4	• -	- 120	0 4/4	/26 2	ch –	16 cł	8 ch	-	4 ch	2x -	-		-	6 ch	•	•	•	•	1x 64 segme	nt 8 ch
XMC4502- F100F768	_   •	LQFP-100	75	Cortex®-M4	120	- •	• 2	12 ch	1 1		• • • •	3.13 to 3.63	-40 to 85	768	•	160	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	-	4 ch	2x -	-	- 3	•	6 ch	•			• •	1x 64 segme	nt 8 ch
XMC4502- F100K768	- •	LQFP-100	75	Cortex®-M4	120	-	• 2	12 ch	1 1	.   •	• • •	3.13 to 3.63	-40 to 125	768	•	160	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	-	4 ch	2x -	-	- 3	•	6 ch	•	•		•	1x 64 segme	nt 8 ch
XMC4500- F100F768	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	12 ch	1 1		• • •	3.13 to 3.63	-40 to 85	768	•	160	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	-	4 ch	2x -	-	• 3	•	6 ch	•	•	•	• •	1x 64 segme	nt 8 ch
XMC4500- F100F1024	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	12 ch	1 1	•	• • •	3.13 to 3.63	-40 to 85	1024	•	160	4	• -	- 120	0 4/4	/18 2	ch –	16 cł	8 ch	-	4 ch	2x -	-	• 3	•	6 ch	•	•	•	•	1x 64 segmen	nt 8 ch
XMC4500- F100K768	- •	LQFP-100	75	Cortex®-M4	120	- •	• 2	12 ch	1 1		• • • •	3.13 to 3.63	-40 to 125	768	•	160	4	-	- 120	0 4/4	/18 2	ch -	16 cł	8 ch	-	4 ch	2x -	-	• 3	•	6 ch	•			•	1x 64 segme	nt 8 ch

	Mar- kets				Core		Co-p		Syste	em				De- bug			Memo	ry					Analo	5	Time	/PWM				Com	muni	catio	n							
Product type/partnumber	Automotive Industrial	Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV	FPU	ERU	MBI	CRC	PRNG	Real-Time Clock	SWD, SPD	Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC	RAM	EEPROM emulationin flash	Secure bootloader		No. of 12-bit ADC/ No. of sample and hold/ No. of inputs		CCU4	ссив	HRPWM (150 ps)	ΔΣ Demodulator	POSIF BCCU/LED	EtherCAT® IEEE1588 Ethernet MAC	CAN 2.0B nodes USB	SDIO/SD/MMC		Jniver erface		trolle	L sr) S <sub>2</sub> /SII	External Bus Unit (EBU)	LED display	Capacitive touch
XMC4500 S	eries															,																								
XMC4500- F100K1024	- •	•	LQFP-100	75	Cortex®-M4	120		•	2 12	ch 1	1	•	•	•	3.13 to 3.63	-40 to 125	1024	• 1	.60 4	4 •	-	120	4/4/18	2 ch -	16 ch	8 ch	- 4	l ch	2x -	- •	3 •	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch
XMC4500- F144F768	- •	•	LQFP-144	119	Cortex®-M4	120	_ •	•	2 12	ch 1	1		•		3.13 to 3.63	-40 to 85	768	• 1	.60 4	4 •	-	120	4/4/26	2 ch -	16 ch	8 ch	- 4	ch :	2x -	- •	3 •	•	6 ch	•	• •		•	•	1x 64 segment	8 ch
XMC4500- F144F1024	- •	•	LQFP-144	119	Cortex®-M4	120	- •	•	2 12	ch 1	1		•		3.13 to 3.63	-40 to 85	1024	• 1	.60 4	4 • •	-	120	4/4/26	2 ch -	16 ch	8 ch	- 4	ch :	2x -	- •	3 •	•	6 ch	• •	• •	•	•	• :	1x 64 segment	8 ch
XMC4500- F144K768	- •	•	LQFP-144	119	Cortex®-M4	120	_ •	•	2 12	ch 1	1	•	•		3.13 to 3.63	-40 to 125	768	• 1	.60 4	4 •	-	120	4/4/26	2 ch -	16 ch	8 ch	_ 4	t ch	2x -	- •	3 •	•	6 ch	• •	• •		•	•	1x 64 segment	8 ch
XMC4500- E144F1024	- •	•	LFB- GA-144	119	Cortex®-M4	120		•	2 12	ch 1	1	•	•		3.13 to 3.63	-40 to 85	1024	• 1	.60 4	4 • •	-	120	4/4/26	2 ch -	16 ch	8 ch	_ 4	t ch	2x -	-	3 •	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch
XMC4500- F144K1024	- •	•	LQFP-144	119	Cortex®-M4	120	- •	•	2 12	ch 1	1	•	•		3.13 to 3.63	-40 to 125	1024	• 1	.60 4	4 •	-	120	4/4/26	2 ch -	16 ch	8 ch	_ 4	t ch	2x -	-	3 •	•	6 ch	•	•	•	•	• :	1x 64 segment	8 ch
XMC4700 S	eries																																							
XMC4700- F100F1536	-	•	LQFP-100	75	Cortex®-M4	144	-		2 12	ch 1	1	•	•	•	3.13 to 3.63	-40 to 85	1536	• 2	76 8	8 •	-	144	4/4/18	2 ch -	16 ch	8 ch	- 4	ch :	2x -	-	6 •	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch
XMC4700- F100K1536	-	•	LQFP-100	75	Cortex®-M4	144	- •	•	2 12	ch 1	1	•	•		3.13 to 3.63	-40 to 125	1536	• 2	76 8	8 •	-	144	4/4/18	2 ch -	16 ch	8 ch	- 4	ch :	2x -	-	6	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch
XMC4700- F100F2048	- •	•	LQFP-100	75	Cortex®-M4	144	- •	•	2 12	ch 1	1	•	•		3.13 to 3.63	-40 to 85	2048	• 3	52 8	8 •	-	144	4/4/18	2 ch -	16 ch	8 ch	- 4	ch :	2x -	- •	6	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch
XMC4700- F100K2048	- •	•	LQFP-100	75	Cortex®-M4	144	- •	•	2 12	ch 1	1	•	•		3.13 to 3.63	-40 to 125	2048	• 3	52 8	8 •	-	144	4/4/18	2 ch -	16 ch	8 ch	- 4	ch :	2x -	-	6	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch
XMC4700- F144F1536	- •	•	LQFP-144	119	Cortex®-M4	144	- •	•	2 12	ch 1	1	•	•	•	3.13 to 3.63	-40 to 85	1536	• 2	276 8	8 •	-	144	4/4/26	2 ch -	16 ch	8 ch	_ 4	t ch	2x -	- •	6	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch
XMC4700- F144K1536	- •	•	LQFP-144	119	Cortex®-M4	144	- •	•	2 12	ch 1	1	•	•	•	3.13 to 3.63	40 to 125	1536	• 2	276 8	8 • •	-	144	4/4/26	2 ch -	16 ch	8 ch	_ 4	t ch	2x -	- •	6 •	•	6 ch	•	• •	•	•	•	1x 64 segment	8 ch
XMC4700- F144F2048	- •	•	LQFP-144	119	Cortex®-M4	144	- •	•	2 12	ch 1	1	•	•	•	3.13 to 3.63	-40 to 85	2048	• 3	352 8	8 •	-	144	4/4/26	2 ch -	16 ch	8 ch	_ 4	t ch	2x -	- •	6 •	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch
XMC4700- F144K2048	- •	•	LQFP-144	119	Cortex®-M4	144	- •	•	2 12	ch 1	1	•	•	•	3.13 to 3.63	-40 to 125	2048	• 3	52 8	8 •	-	144	4/4/26	2 ch -	16 ch	8 ch	_ 4	ch :	2x -	-	6 •	•	6 ch	•	•	•	•	•	1x 64 segment	8 ch

	Mar- kets			Core		Co-pro- cessor	- Syst	em			De- bug			Memo	ory					Analog		Time	r/PWM	ı			Coi	nmur	nicati	on						
Product type/partnumber	Automotive Industrial Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV DSP FPII	ERU	DMA	CRC PRNG	Watchdog Real-Time Clock	SWD, SPD JTAG, Trace	Supply voltage [V]	Operating temperature range TA [°C]	Flash	ECC RAM	Cache	EEPROM emulationin flash Data/IP protection	Secure bootloader	프 .	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	JA S	CAN 2.0B nodes	SDIO/SD/MMC		Jniverserface (		ial oller) S <sub>2</sub> / <sub>2</sub> C IIS/I <sub>2</sub> C	External Bus Unit (EBU)	LED display	Capacitive touch
XMC4700 Se	eries											'																								
XMC4700- E196F1536	- •	LFB- GA-196	155	Cortex®-M4	144	- •	2 12	2 ch   1	1 •	• •	•	3.13 to 3.63	-40 to 85	1536	• 276	5 8	• •	-	144	4/4/26	2 ch -	- 16 ch	8 ch	-	4 ch	2x -		6	• •	6 ch	• •	•	• •	• 1	x 64 segment	8 ch
XMC4700- E196K1536	- • •	LFB- GA-196	155	Cortex®-M4	144	- • •	2 12	2 ch 1	1 •	• •	• •	3.13 to 3.63	-40 to 125	1536	• 276	6 8		- 1	144	4/4/26	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	- (	6	• •	6 ch	• •	• •	• • •	• 1	x 64 segment	8 ch
XMC4700- E196F2048	- • •	LFB- GA-196	155	Cortex®-M4	144	- • •	2 12	2 ch 1	1 •	• •		3.13 to 3.63	-40 to 85	2048	• 352	2 8		- 1	144	4/4/26	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	- •	6	• •	6 ch		• •	• • •	• 1	x 64 segment	8 ch
XMC4700- E196K2048	- • •	LFB- GA-196	155	Cortex®-M4	144	- • •	2 12	2 ch 1	1 •	• •	• •	3.13 to 3.63	-40 to 125	2048	• 352	2 8	• •	-	144	4/4/26	2 ch -	- 16 ch	8 ch	_	4 ch	2x -	_ (	• 6	• •	6 ch	• •	• •	• •	• 1	x 64 segment	8 ch
XMC4800 Se	eries																																			
XMC4800- F100F1024		LQFP-100	75	Cortex®-M4	144	-   •   •	2 12	2 ch   1	1 •	•	• •	3.13 to 3.63	-40 to 85	1024	• 200	8 0	• •	-	144	4/4/18	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	•   •	6 ch	• •	•   •	• •	• 1	x 64 segment	8 ch
XMC4800- F100K1024		LQFP-100	75	Cortex®-M4	144	- •	2 12	2 ch   1	1 •	•	• •	3.13 to 3.63	-40 to 125	1024	• 200	8 0	• •	-	144	4/4/18	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	• •	6 ch	• •	•	• •	• 1	x 64 segment	8 ch
XMC4800- F100F1536	- • -	LQFP-100	75	Cortex®-M4	144	- •	2 12	2 ch   1	1 •	• •	• •	3.13 to 3.63	-40 to 85	1536	• 276	6 8	• •	- 1	144	4/4/18	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	• •	6 ch	• •	•	• •	• 1	x 64 segment	8 ch
XMC4800- F100K1536	- • -	LQFP-100	75	Cortex®-M4	144	- •	2 12	2 ch 1	1 •	• •	• •	3.13 to 3.63	-40 to 125	1536	• 276	5 8		-	144	4/4/18	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	• •	6 ch	• •	•	• • •	• 1	x 64 segment	8 ch
XMC4800- F100F2048		LQFP-100	75	Cortex®-M4	144	- •	2 12	2 ch   1	1 •	• •	• •	3.13 to 3.63	-40 to 85	2048	• 352	2 8	• •	-	144	4/4/18	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	• •	6 ch	• •	•   •	• •	• 1	x 64 segment	8 ch
XMC4800- F100K2048	- • -	LQFP-100	75	Cortex®-M4	144	- •	2 12	2 ch   1	1 •	• •	• •	3.13 to 3.63	-40 to125	2048	• 352	2 8	• •	-	144	4/4/18	2 ch -	- 16 ch	8 ch		4 ch	2x -	•	6	• •	6 ch	• •	•	• •	• 1	x 64 segment	8 ch
XMC4800- F144F1024	- • -	LQFP-144	119	Cortex®-M4	144	- •	2 12	2 ch 1	1 •	• •	• •	3.13 to 3.63	-40 to 85	1024	• 200	8 0		-	144	4/4/26	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	• •	6 ch	• •	•	• • •	• 1	x 64 segment	8 ch
XMC4800- F144K1024		LQFP-144	119	Cortex®-M4	144	- •	2 12	2 ch 1	1 •	• •	• •	3.13 to 3.63	-40 to 125	1024	• 200	8 0		-	144	4/4/26	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	• •	6 ch	• •	•	• •	• 1	x 64 segment	8 ch
XMC4800- F144F1536		LQFP-144	119	Cortex®-M4	144	- •	2 12	2 ch 1	1 •	•	•	3.13 to 3.63	-40 to 85	1536	• 276	8	• •	-	144	4/4/26	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	•	6 ch	• •	•	• •	• 1	x 64 segment	8 ch
XMC4800- F144K1536		LQFP-144	119	Cortex®-M4	144	- • •	2 12	2 ch   1	1 •	• •	• •	3.13 to 3.63	-40 to 125	1536	• 276	5 8	• •	-	144	4/4/26	2 ch -	- 16 ch	8 ch	-	4 ch	2x -	•	6	•	6 ch	• •	•	• •	• 1	x 64 segment	8 ch

	Mar- kets			Core		Co-pro		System				De- oug			Mem	ory					Α	nalog		Tin	ner/PW	М			C	omm	unica	tion						
Product type/partnumber	e.			type	frequency [MHz]	2					Clock	e;	voltage	Operating temperature range TA [°C]				mulationin flash	otection	ls clock [MHz]	oit ADC/	iple and hold/ ats		or		50 pc)	modulator			E1588 Ethernet MAC		Ir ر		USIC iversal ace Coi	Serial	er) (si		touch:
Product ty	Automotiv Industrial Consumer	Package	GPIOs	Processor	Core frequ	CORDIC/DIV DSP	FPU	DMA	MPU	PRNG Watchdog	Real-Time	JTAG, Trac	Supply vol [V]	Operating range TA [°C]	Flash	ECC	RAM	Cache EEPROM e	Data/IP pr	Peripheral	No. of 12-k	No. of sam No. of inpu	12-bit DAC	Comparator CCU4	8IIJ	HRPWM (150 ns)	ΔΣ Demod	POSIF	BCCU/LED EtherCAT®	IEEE1588 I	USB	# channels	SPI	Dual SPI Quad SPI	UART/SCI IIC/I²C	IIS/I²S LIN External Bus	LED display	Capacitive
XMC4800 S	eries																																					
XMC4800- F144F2048		LQFP-144	119	Cortex®-M4	144	-	• 2	12 ch	1 1	•	•	•	3.13 to 3.63	-40 to 85	2048	• 3	352	8 •	• -	144	4 4,	/4/26	2 ch	- 16	:h 8 c	h -	4 ch	ı 2x	-	• 6		6 cł	1 •	• •	• •	• •	1x 64 segmen	t 8 ch
XMC4800- F144K2048		LQFP-144	119	Cortex®-M4	144	- •	• 2	12 ch	1 1	•		•	3.13 to 3.63	-40 to125	2048	• 3	352	8 •	• -	144	4 4,	/4/26	2 ch	- 16	:h 8 c	h -	4 cł	1 2x	- •	• 6	•	6 cł	۱ •	• •	• •	• •	1x 64 segmen	nt 8 ch
XMC4800- E196F1024	- • -	LFB- GA-196	155	Cortex®-M4	144	- •	• 2	12 ch	1 1	• •		•	3.13 to 3.63	-40 to 85	1024	• 2	200	8 •	• -	144	4 4,	/4/26	2 ch	- 16	:h 8 c	h -	4 ch	1 2x	- •	• 6		6 cl	1 •	• •	• •	• • •	1x 64 segmen	nt 8 ch
XMC4800- E196K1024		LFB- GA-196	155	Cortex®-M4	144	- •	• 2	2 12 ch	1 1	•		•	3.13 to 3.63	-40 to 125	1024	• 2	200	8 •	• -	144	4 4,	/4/26	2 ch	- 16	:h 8 c	h -	4 ch	ı 2x	- •	• 6		6 cl	1 •	• •	• •	• • •	1x 64 segmen	nt 8 ch
XMC4800- E196F1536		LFB- GA-196	155	Cortex®-M4	144	- •	• 2	12 ch	1 1			•	3.13 to 3.63	-40 to 85	1536	• 2	276	8 •	• -	14	4 4,	/4/26	2 ch	- 16	:h 8 c	:h -	4 ch	1 2x	- •	• 6		6 cł	1 •	• •	•	• •	1x 64 segmen	nt 8 ch
XMC4800- E196K1536		LFB- GA-196	155	Cortex®-M4	144	- •	• 2	12 ch	1 1	•	•	•	3.13 to 3.63	-40 to 125	1536	• 2	276	8 •	• -	14	4 4,	/4/26	2 ch	- 16	:h 8 c	h -	4 ch	2x	-	• 6	•	6 cł	1 •	• •	• •	• •	1x 64 segmen	at 8 ch
XMC4800- E196F2048		LFB- GA-196	155	Cortex®-M4	144	- •	• 2	12 ch	1 1			•	3.13 to 3.63	-40 to 85	2048	• 3	352	8 •	• -	144	4 4,	/4/26	2 ch	- 16	th 8 c	h –	4 ch	1 2x	- •	• 6	•	6 cł	1 •	• •	•	• • •	1x 64 segmen	nt 8 ch
XMC4800- E196K2048		LFB- GA-196	155	Cortex®-M4	144	-	• 2	12 ch	1 1	•	•	•	3.13 to 3.63	-40 to125	2048	• 3	352	8 •	• -	144	4 4,	/4/26	2 ch	- 16	:h 8 c	h -	4 cł	ı 2x	- •	• 6	•	6 cł	1 •	• •	•	• •	1x 64 segmen	nt 8 ch

**BCCU** = Brightness and Color Control Unit for LED lighting

**CCU** = Capture Compare Unit

FPU = Floating Point Unit MMC = Multi Media Card

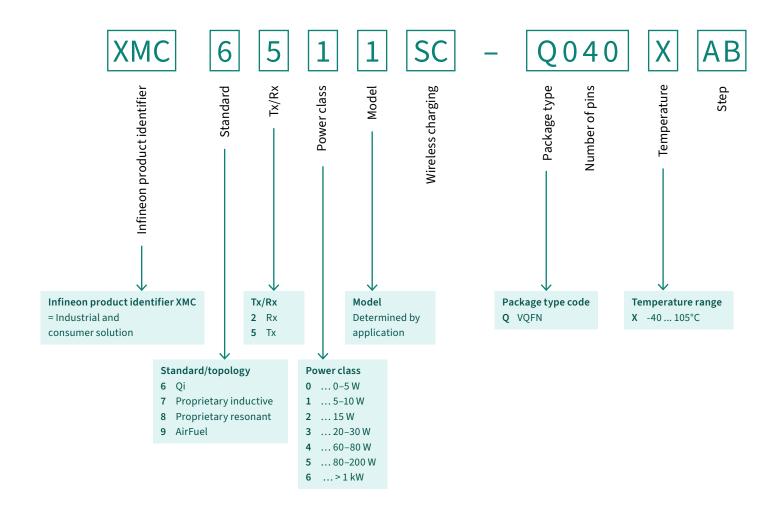
**POSIF** = Motor Position Interface

**SDIO** = SD Card Interface with Input/Output

USIC = UART/SCI, SPI, Dual-SPI, Quad-SPI, IIC/I<sup>2</sup>C, IIS/I<sup>2</sup>S, LIN

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#### Wireless power controller



# Wireless charging series

Product type/ partnumber	Automotive	Industrial	Consumer	Package	GPIOs	Topology	Power [W]	Transmitter	Receiver	Certification	CAN	NFC
XMC8201SC-Q024X	-	•	•	VQFN-24	-	Resonant	2.5	_	•	-	-	-
XMC8501SC-Q040X	-	•	•	VQFN-40	-	Resonant	2.5	•	-	-	CAN 2.0	SPI
XMC8231SC-Q024X	-	•	•	VQFN-24	-	Resonant	30	-	•	-	-	-
XMC8531SC-Q040X	-	•	•	VQFN-40	_	Resonant	30	•	-	-	CAN 2.0	SPI
XMC7201SC-Q024X	-	•	•	VQFN-24	-	Inductive	< 5	-	•	-	-	-
XMC7501SC-Q040X	-	•	•	VQFN-40	-	Inductive	< 5	•	-	-	CAN 2.0	SPI
XMC6511SC-Q040X	-	•	•	VQFN-40	-	Inductive	10	•	-	Qi-Certified	-	-
XMC6521SC-Q040X	-	•	•	VQFN-40	-	Inductive	15	•	-	Qi-Certified	-	-
XMC7231SC-Q024X	-	•	•	VQFN-24	-	Custom	30	-	•	-	-	-
XMC7531SC-Q040X	-	•	•	VQFN-40	-	Custom	30	•	-	-	-	-
XMC7234SC-Q040X	-	•	•	VQFN-41	-	Custom	30	-	•	-	-	-
XMC7533SC-Q040X	-	•	•	VQFN-42	-	Custom	30	•	-	-	-	-
XMC7241SC-Q024X	-	•	•	VQFN-43	-	Inductive	80	-	•	-	CAN 2.0	SPI
XMC7541SC-Q040X	-	•	•	VQFN-44	-	Inductive	80	•	-	-	CAN 2.0	SPI
SAK-TC212S-8F133SC	•	-	-	TQFP-80	-	Inductive	15	•	-	Qi-Certified	CAN FD	SPI

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators # Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	#SIO	# Smart I/Os # I Iniversal analog blocks	# Universal digital blocks	# USB 10	:	Part family	PLL	USB (type) Package carrier	
PSoC™ 4000 Series																																
CY8C4013LQI-411	•	•	-	QFN	13	Cortex®-M0	16	-	0x0A431193	8	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -			-	-	- Tra	y ——
CY8C4013LQI-411T	•	•	-	QFN	13	Cortex®-M0	16	-	0x0A431193	8	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Re	el
CY8C4013SXI-400	•	•	-	SOP	5	Cortex®-M0	16	_	0x0A401193	8	-	2	-	85	5.5	-40	1.7	-	-	- 1	-	-	1	-	-   -	-	-		-	-	- Tub	)e
CY8C4013SXI-400T	•	•	-	SOP	5	Cortex®-M0	16	-	0x0A401193	8	-	2	-	85	5.5	-40	1.7	-	-	- 1	-	-	1	-	-   -	-   -	-		-	-	- Re	el
CY8C4013SXI-410	•	•	-	SOP	5	Cortex®-M0	16	_	0x0A411193	8	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Tub	Эе
CY8C4013SXI-410T	•	•	-	SOP	5	Cortex®-M0	16	-	0x0A411193	8	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Re	el
CY8C4013SXI-411	•	•	-	SOP	13	Cortex®-M0	16	-	0x0A421193	8	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -		-		-	-	- Tub	Эе
CY8C4013SXI-411T	•	•	-	SOP	13	Cortex®-M0	16	-	0x0A421193	8	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Re	el
CY8C4014FNI-421AT	•	•	•	WLCSP	13	Cortex®-M0	16	-	0x0A441193	16	_	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Re	el
CY8C4014LQI-412	•	•	-	QFN	20	Cortex®-M0	16	-	0x0A471193	16	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Tra	ıy
CY8C4014LQI-412KT	•	•	-	QFN	20	Cortex®-M0	16	-	0x0A471193	16	_	2	-	85	5.5	-40	1.7	-	-	1 1		-	1	-	-   -	-   -	-		-	-	- Tra	ıy
CY8C4014LQI-412T	•	•	-	QFN	20	Cortex®-M0	16	-	0x0A471193	16	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-   -		-	-	- Re	el
CY8C4014LQI-421	•	•	•	QFN	13	Cortex®-M0	16	-	0x0A461193	16	_	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Tra	ıy
CY8C4014LQI-421T	•	•	•	QFN	13	Cortex®-M0	16	-	0x0A461193	16	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Re	el
CY8C4014LQI-422	•	•	•	QFN	20	Cortex®-M0	16	-	0x0A481193	16	-	2	-	85	5.5	-40	1.7	-	-	1 1		-	1	-	-   -	-			-	-	- Tra	ıy
CY8C4014LQI-422KT	•	•	•	QFN	20	Cortex®-M0	16	-	0x0A481193	16	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Tra	ıy
CY8C4014LQI-422T	•	•	•	QFN	20	Cortex®-M0	16	-	0x0A481193	16	_	2	-	85	5.5	-40	1.7	-	-	1 1		_	1	-	-   -	_   -	-		-	-	- Re	el
CY8C4014LQIW-412	•	•	-	QFN	20	Cortex®-M0	16	-	0x0A471193	16	-	2	-	85	5.5	-40	1.7	-	-	1 1	-	-	1	-	-   -	-   -	-		-	-	- Tra	ıy
CY8C4014LQIW-422	•	•	•	QFN	20	Cortex®-M0	16	-	0x0A481193	16	_	2	-	85	5.5	-40	1.7	-	-	1 1		_	1	-	-   -	-   -	-   -		-	-	- Tra	ıy

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Мах. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4000 Series																															
CY8C4014PVI-412	•	•	-	SOP	20	Cortex®-M0	16	-	0x0A54119A	16	-	2	-	85	5.5	-40	1.7	-	-   :	l 1	-	-	1	-   -	-	-	-	-	-	-	Tube
CY8C4014PVI-422	•	•	•	SOP	20	Cortex®-M0	16	-	0x0A55119A	16	-	2	-	85	5.5	-40	1.7	-	- :	1 1	-	-	1	-   -	-	-	-	-	-	-	Tube
CY8C4014SXI-420	•	•	•	SOP	5	Cortex®-M0	16	-	0x0A53119A	16	-	2	-	85	5.5	-40	1.7	-	-   :	l 1	-	-	1	-   -	-	-	-	-	-	-	Tube
CY8C4014SXI-420T	•	•	•	SOP	5	Cortex®-M0	16	-	0x0A53119A	16	-	2	-	85	5.5	-40	1.7	-	-   :	1 1	-	-	1	-   -	-	-	-	-	_	-	Reel
CY8C4014SXI-421	•	•	•	SOP	13	Cortex®-M0	16	-	0x0A441193	16	-	2	-	85	5.5	-40	1.7	-	- :	1 1	-	-	1		-	-	-	-	-	-	Tube
CY8C4014SXI-421T	•	•	•	SOP	13	Cortex®-M0	16	-	0x0A441193	16	-	2	-	85	5.5	-40	1.7	-	-   :	1 1	-	-	1		-	-	-	-	-	-	Reel
CY8C4014SXIW-421	•	•	•	SOIC	13	Cortex®-M0	16	-	0x0A441193	16	-	2	-	85	5.5	-40	1.7	-	- 1	1 1	-	-	1		-	-	-	-	-	-	Tube
PSoC <sup>™</sup> 4000 DS-Series																															
CY8C4045FNI-DS402T	•	•	-	WLCSP	21	Cortex®-M0	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-   :	2 4	8	-	3	- 8	3 -	-	-	-	-	-	Reel
CY8C4045PVI-DS402	•	•	-	SOP	24	Cortex®-M0	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-   :	2 4	8	-	3	- 8	3   -	-	-	-	-	-	Tube
PSoC <sup>™</sup> 4000 S-Series																															
CY8C4024AXI-S402	•	•	-	QFP	27	Cortex®-M0+	24	-	-	16	-	2	•	85	5.5	-40	1.7	-	-   :	2 5	-	-	2	- 1	6 –	-	-	-	-	-	Tray
CY8C4024AXI-S412	•	•	•	QFP	27	Cortex®-M0+	24	-	-	16	-	2	•	85	5.5	-40	1.7	-	-   :	2 5	-	-	2	- 1	6 -	-	-	-	_	-	Tray
CY8C4024AZI-S403	•	•	-	QFP	36	Cortex®-M0+	24	-	-	16	-	2	•	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	6 -	-	-	-	-	-	Tray
CY8C4024AZI-S403T	•	•	-	QFP	36	Cortex®-M0+	24	-	-	16	-	2	•	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	6 -	-	-	-	-	-	Reel
CY8C4024AZI-S413	•	•	•	QFP	36	Cortex®-M0+	24	-	-	16	-	2	•	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	6 –	-	-	-	-	-	Tray
CY8C4024AZI-S413T	•	•	•	QFP	36	Cortex®-M0+	24	-	-	16	-	2	•	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	6 –	-	-	-	-	-	Reel
CY8C4024AZQ-S413	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msps)	-	16	-	2	•	105	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	6 –	-	-	PSoC™ 4	-	-	Tray
CY8C4024FNI-S402	•	•	-	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	•	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 8	-	-	-	-	-	-	-

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Мах. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	#Op Amps	# Serial communication blocks	OIS#	# Smart I/Os # I Iniversal analog blocks	# 0111/01/24 digital Notice	# Universal digital blocks	# 03810	Part family	PLL	USB (type)	Package carrier
PSoC™ 4000 S-Series																																
CY8C4024FNI-S402T		l		WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	l	85	5.5	-40	1.7	-	-   :	2 5	-	-	2	-	8 -		-   -	-	-	-	-	Reel
CY8C4024FNI-S412	l	l	l	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8 -		-   -	-	-	-	-	-
CY8C4024FNI-S412T	l	l	l	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8 -	-   -	-   -	_	-	-	-	Reel
CY8C4024LQI-S401	l	l	-	QFN	19	Cortex®-M0+	24	-	-	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8 -	.   .	-   -	-	-	-	-	Tray
CY8C4024LQI-S401KT	l	l	-	QFN	19	Cortex®-M0+	24	-	-	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8 -	<u>.   .</u>	-   -	-	-	-	-	Tray
CY8C4024LQI-S402	l	l	-	QFN	27	Cortex®-M0+	24	-	-	16	-	2	l	85	5.5	-40	1.7	-	- 3	2 5	-	-	2	-   :	16 -	-   -	-   -	-	-	-	-	Tray
CY8C4024LQI-S403	l	l	-	QFN	34	Cortex®-M0+	24	-	0x1914	16	-	2	l	85	5.5	-40	1.7	-	-   :	2 5	-	-	2	-   :	16 -	-   -	-   -	-	-	-	-	Tray
CY8C4024LQI-S403T	l	l	-	QFN	34	Cortex®-M0+	24	-	0x1914	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-   :	16 -	.   .	-   -	-	-	-	-	Reel
CY8C4024LQI-S411	l	l	l	QFN	19	Cortex®-M0+	24	-	-	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8 -	-   -	-   -	-	-	-	-	Tray
CY8C4024LQI-S412	l	l	l	QFN	27	Cortex®-M0+	24	-	-	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	16 -	-   -	-   -	-	-	-	-	Tray
CY8C4024LQI-S412T	l	l	l	QFN	27	Cortex®-M0+	24	-	-	16	_	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	16 -	-   -	-   -	-	-	-	-	Reel
CY8C4024LQI-S413	l	l	l	QFN	34	Cortex®-M0+	24	-	0x1915	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	16 -	-   -	-   -	-	-	-	-	Tray
CY8C4024LQI-S413T	l	l	l	QFN	34	Cortex®-M0+	24	-	0x1915	16	-	2	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	16 -	-   -	-   -	-	-	-	-	Reel
CY8C4025AXI-S402	l	l	-	QFP	27	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	16 -	.   .	-   -	-	-	-	-	Tray
CY8C4025AXI-S412	ı	ι	l	QFP	27	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	16 -	-   -	-   -	-	-	-	-	Tray
CY8C4025AZI-S403	l	l	-	QFP	36	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	16 -	-   -	-   -	-	-	-	-	Tray
CY8C4025AZI-S403T	l	ι	-	QFP	36	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	16 -	-   -	-   -	-	-	-	-	Reel
CY8C4025AZI-S413	l	l	l	QFP	36	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	16 -	-   -	-   -	-	-	-	-	Tray
CY8C4025AZI-S413T	l	ι	ι	QFP	36	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	16 -	-   -	-   -	-	-	-	-	Reel

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os # Universal analog blocks	# Universal digital blocks	# USBIO	Partfamily	PLL	USB (type)	Package carrier
PSoC™ 4000 S-Series		Ι,		OFF	26	Control® MO	24	CAR(1, 12 kit C 1 mmm)		22				105		40	1.7			.			2	ء ا				DC - CTM 4			Tuesday
CY8C4025AZQ-S403		l		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msps)	-	32	-	4		105	5.5	-40	1.7	-		2 5	-	-	2		16 -	-		PSoC™ 4		-	Tray
CY8C4025AZQ-S413		l		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msps)	-	32	-	4		105	5.5	-40	1.7	-		2 5	-	-	2		- 16			PSoC™ 4	-	-	Tray
CY8C4025FNI-S402	l	-		WLCSP	21	Cortex®-M0+	24	-	-	32	-	4		85	5.5	-40	1.7	-		2 5	-	-	2		8 –			_	-	-	-
CY8C4025FNI-S402T		l		WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-		2 5	-	-	2		8 -	-	-	-	-	-	Reel
CY8C4025FNI-S412		l		WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-		2 5	-	-	2		8 -	<u> </u>	-	-	-	-	-
CY8C4025FNI-S412T		l		WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-		2 5	-	-	2		8 -	-	-	-	-	-	Reel
CY8C4025LQI-S401		l		QFN	19	Cortex®-M0+	24	-	_	32	-	4	l	85	5.5	-40	1.7	-		2 5	-	-	2	-	8 -	-	-	-	-	-	Tray
CY8C4025LQI-S402	l	l	-	QFN	27	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	L6 –	-	-	-	-	-	Tray
CY8C4025LQI-S402T	l	l	-	QFN	27	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	L6 -	-	-	-	-	-	Reel
CY8C4025LQI-S403	l	l	-	QFN	34	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	L6 -	-	-	-	-	-	Tray
CY8C4025LQI-S411	l	l	l	QFN	19	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8 -			-	-	-	Tray
CY8C4025LQI-S412	l	l	l	QFN	27	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	-   :	2 5	-	-	2	- 1	L6 -	-	-	-	-	-	Tray
CY8C4025LQI-S412T	l	l	l	QFN	27	Cortex®-M0+	24	_	_	32	-	4	l	85	5.5	-40	1.7	-	-   :	2 5	-	-	2	- 1	L6 -	-	-	_	-	-	Reel
CY8C4025LQI-S413	l	l	l	QFN	34	Cortex®-M0+	24	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	L6 -	-	-	-	-	-	Tray
CY8C4045AZI-S413	l	l	l	QFP	36	Cortex®-M0+	48	-	-	32	-	4	l	85	5.5	-40	1.7	- 1	- :	2 5	-	-	2	- 1	L6 -	-	-	-	-	-	Tray
CY8C4045AZI-S413T	l	l	l	QFP	36	Cortex®-M0+	48	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	- 1	L6 –	-	-	-	-	-	Reel
CY8C4045FNI-S412	l	ι	l	WLCSP	21	Cortex®-M0+	48	-	_	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8 -	-	-	-	-	-	-
CY8C4045FNI-S412T	l	l	l	WLCSP	21	Cortex®-M0+	48	-	-	32	-	4	l	85	5.5	-40	1.7	-	- 1	2 5	-	-	2	-	8 -	-	-	-	-	-	Reel
CY8C4045LQI-S411	l	ι	l	QFN	19	Cortex®-M0+	48	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8 -	-	-	-	-	-	Tray

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators # Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4000 S-Series				0.514	0.7	0 1 0 110	10			00				0.5		40	4 =								4.0							-
CY8C4045LQI-S412		•		QFN	27	Cortex®-M0+	48	_	-	32	-	4	•	85	5.5	-40	1.7	-		2 5		-	2	-	16			-	_	-		Tray
CY8C4045LQI-S412T	•	•		QFN	27	Cortex®-M0+	48	-	-	32	-	4	•	85	5.5	-40	1.7	-		2 5		-	2	-	16	-	-	-	_	-		Reel
CY8C4045LQI-S413	•	•	•	QFN	34	Cortex®-M0+	48	-	-	32	-	4	•	85	5.5	-40	1.7	-	-	2 5		-	2	-	16	-	-	-	_	-	-	Tray
PSoC™ 4100 Series																																
CY8C4124AXI-443	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	•	85	5.5	-40	1.7	-	2	2 4	-	2	2	-	-	-	-	-	_	-	-	Tray
CY8C4124AXI-443T	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	•	85	5.5	-40	1.7	-	2	2 4	-	2	2	-	-	-	-	-	-	-	-	Reel
CY8C4124AXI5-443	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	•	85	5.5	-40	1.7	-	2	2 4	-	2	2	-	-	-	-	-	-	-	-	Tray
CY8C4124AXQ-443	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	•	105	5.5	-40	1.7	-	2	2 4	-	2	2	-	-	-	-	-	-	-	-	Tray
CY8C4124AZI-443	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	•	85	5.5	-40	1.7	-	2	2 4	-	2	2	-	-	-	-	-	-	-	-	Tray
CY8C4124LQI-443	•	•	•	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	16	4	4	•	85	5.5	-40	1.7	-	2	2 4	-	2	2	-	-	-	-	-	-	-	-	Tray
CY8C4124LQI-443T	•	•	•	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	16	4	4	•	85	5.5	-40	1.7	-	2	2 4	-	2	2	-	-	-	-	-	-	-	-	Reel
CY8C4124LQQ-443	•	•	•	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	16	4	4	•	105	5.5	-40	1.7	-	2	2 4	-	2	2	-	-	-	-	-	-	-	-	Tray
CY8C4124PVI-432	•	•	-	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	-	85	5.5	-40	1.7	-	1	2 4	-	1	2	-	-	-	-	-	-	-	-	Tube
CY8C4124PVI-432T	•	•	-	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	-	85	5.5	-40	1.7	-	1	2 4	-	1	2	-	-	-	-	-	-	-	-	Reel
CY8C4124PVI-442	•	•	•	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	•	85	5.5	-40	1.7	-	1	2 4	-	1	2	-	-	-	-	-	-	-	-	Tube
CY8C4124PVI-442T	•	•	•	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	•	85	5.5	-40	1.7	-	1	2 4	-	1	2	-	-	-	-	-	-	-	-	Reel
CY8C4124PVI5-442	•	•	•	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	•	85	5.5	-40	1.7	-	1	2 4	-	1	2	-	-	-	-	-	-	-	-	Tube
CY8C4124PVQ-432	•	•	-	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	-	105	5.5	-40	1.7	-	1	2 4	-	1	2	-	-	-	-	-	-	-	-	Tube
CY8C4124PVQ-442	•	•	•	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	•	105	5.5	-40	1.7	-	1	2 4	-	1	2	-	-	-	-	-	-	-	-	Tube

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os # Haivorgal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 Series																															
CY8C4125AXI-473		•		QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	-	85	5.5	-40	1.7	-		2 4	-	2	2	-	-   -	-   -	-	-		-	
CY8C4125AXI-483	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	32	-	4	•	85	5.5	-40	1.7	-	1 :	2 4	-	2	2	-	-   -	-   -	-	-	-	-	Tray
CY8C4125AXI-483T	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	32		4	•	85	5.5	-40	1.7	-	1 :	2 4	-	2	2	-	-   -	-   -	-	-	-	-	
CY8C4125AXQ-473	•	•	-	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	-	105	5.5	-40	1.7	-	2	2 4	-	2	2	-	-   -	-   -	-	-		-	Tray
CY8C4125AXQ-483	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	32	-	4	•	105	5.5	-40	1.7	-	1 :	2 4	-	2	2	-	-   -	-   -	-	-	-	-	Tray
CY8C4125AZI-473	•	•	-	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	-	85	5.5	-40	1.7	-	2	2 4	-	2	2	-	-   -	-   -		-		-	Tray
CY8C4125AZI-483	•	•	•	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04261193	32	4	4	•	85	5.5	-40	1.7	-	1 :	2 4	-	2	2	-	-   -	-   -	-	-		-   -	Tray
CY8C4125LQI-483	•	•	•	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	-	4	•	85	5.5	-40	1.7	-	2	2 4	-	2	2	-	-   -	-   -	-	-	-	-	Tray
CY8C4125LQI-483T	•	•	•	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	-	4	•	85	5.5	-40	1.7	-	2	2 4	-	2	2	-		-   -	-	-	-	-	Reel
CY8C4125LQQ-483	•	•	•	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	-	4	•	105	5.5	-40	1.7	-	2	2 4	-	2	2	-	-   -	-   -		-			Tray
CY8C4125PVI-482	•	•	•	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	-	4	•	85	5.5	-40	1.7	-	1 :	2 4	_	1	2	-	-   -	-   -		_		-	Tube
CY8C4125PVI-482T	•	•	•	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	-	4	•	85	5.5	-40	1.7	-	1 :	2 4	-	1	2	-	-   -	-   -	-	-		<u> </u> -	Reel
CY8C4125PVQ-482	•	•	•	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	-	4	•	105	5.5	-40	1.7	-	1 :	2 4	-	1	2	-	-   -	-   -	-	-		-	Tube
CY8C4125AXI-M445	•	•	•	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1104	32	-	4	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-   -	-	-		-	Tray
CY8C4125AXI-M445T	•	•	•	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1104	32	-	4	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-   -	-	_		-	Reel
CY8C4125AZI-M433	•	•	-	QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1100	32	-	4	-	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-   -	-	-	-		Tray
CY8C4125AZI-M443	•	•	•	QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1101	32	-	4	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-   -	-	-		-   -	Tray
CY8C4125AZI-M445	•	•	•	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1102	32	-	4	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-   -	-	-		-	Tray
CY8C4125LTI-M445	•	•	•	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1103	32	_	4	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-   -	-   -	_		_	Tray

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators # Dedicated timer/Counter/DWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	01S#	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 Series						- 0																1.										
CY8C4126AXI-M443		•		QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	•	85	5.5	-40	1.7	-		2 8		2	4	-	-			-	_	-	-	Tray
CY8C4126AXI-M443T		•		QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	•	85	5.5	-40	1.7	-		2 8		2	4	-	-			-	-	-	-	Reel
CY8C4126AXI-M445	•		•	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110A	64	-	8	•	85	5.5	-40	1.7	-		2 8		2	4	-	-			-	_	-		Tray
CY8C4126AZI-M443		•		QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1105	64	-	8	•	85	5.5	-40	1.7	-		2 8		2	4	-	-	-		-	-	-	-	Tray
CY8C4126AZI-M445		•		FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1106	64	-	8	•	85	5.5	-40	1.7	-		2 8		2	4	-	-			-		-	-	Tray
CY8C4126AZI-M475		•		FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1107	64	-	8	-	85	5.5	-40	1.7	-		2 8		4	4	-	-	-		-		-	-	Tray
CY8C4126LTI-M445		•		QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1108	64	_	8	•	85	5.5	-40	1.7	-		2 8		4	4	_	-	-		-		-	-	Tray
		•	-	QFN FP	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1109	64 128	-	16	_	85 85	5.5	-40	1.7	-		2 8		4	4	-	-			-		-	-	Tray
CY8C4127AXI-M485 CY8C4127AZI-M475		•		FP	51 51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps) SAR (1, 12-bit @ 806 ksps)	0x110E 0x110C	128	-	16	•	85	5.5	-40 -40	1.7	_		2 8		4	4	_	_			_		-	-	Tray
CY8C4127AZI-M475		•	•	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110C	128		16	•	85	5.5	-40	1.7	_		2 8		4	4	_	_			_		_	_	Tray Tray
CY8C4127LTI-M475	•			QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110B	128	_	16	•	85	5.5	-40	1.7	_		2 8		4	4	_	_			_		_	_	Tray
CYSHM35925I-M068LTIT		•	_	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1111	128	_	16	•	85	5.5	-40	1.7	_		2 8		2	4	_	_			_	_	_	_	Reel
PSoC™ 4100 PS-Series				Ç				(-) (											_			_										
CY8C4125AZI-PS423	•	•	•	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	32	_	4	•	85	5.5	-40	1.7	_	2	2 8	8	4	3	_	8	1	_	_	_	_	_	Tray
CY8C4125FNI-PS423T	•	•	•	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	_	4	•	85	5.5	-40	1.7	_		2 8		4	3	_	8			-	_	_	-	Reel
CY8C4125LQI-PS423	•	•	•	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	32	_	4	•	85	5.5	-40	1.7	_		2 8		4	3	_	8			-	_	-	-	Tray
CY8C4125PVI-PS421	•	•	•	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	-	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	-	-	-	-	-	-	Tube
CY8C4145AZI-PS423		•		QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	32			•	85	5.5	-40	1.7			2 8	8	4	3					_				Tray

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Мах. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	#SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB 10	Part family	PLL	USB (type)	Package carrier
PSoC <sup>™</sup> 4100 PS-Series																																
CY8C4145AZI-PS433	•	•	•	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	•	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	1	-   -	-	-	-	-	Tray
CY8C4145FNI-PS423T	•	•	•	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	•	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	1	-   -	-	-	-	-	Reel
CY8C4145FNI-PS433T	•	•	•	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	32	-	4	•	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	1	-   -	-	-	-	-	Reel
CY8C4145FNQ-PS423T	•	•	•	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	•	105	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	1	-   -	-	-	-	-	Reel
CY8C4145FNQ-PS433T	•	•	•	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	_	4	•	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	1	-   -	-	-	-	-	Reel
CY8C4145LQI-PS423	•	•	•	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	•	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	1	-   -	-	-	-	-	Tray
CY8C4145LQI-PS433	•	•	•	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	•	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	1	-   -	-	-	-	-	Tray
CY8C4145PVI-PS421	•	•	•	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	_	4	-	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	-	-   -	-	-	-	-	Tube
CY8C4145PVI-PS431	•	•	•	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	-	85	5.5	-40	1.7	-	2	2 8	8	4	3	-	8	-	-   -	-	-	-	-	Tube
CY8C4724FNI-S402T	•	•	-	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2 5	-	-	2	-	-   -	-	-   -	-	-	-	-	Reel
CY8C4724LQI-S401	•	•	-	QFN	19	Cortex®-M0+	24	-	-	16	-	2	-	85	5.5	-40	1.7	-	-   :	2 5	-	-	2	-	-   -	-	-   -	-	-	-	-	Tray
CY8C4725FNI-S402T	•	•	-	WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	-	85	5.5	-40	1.7	-	-   :	2 5	-	-	2	-	-   -	-   '	-   .	-	-	-	-	Reel
CY8C4725LQI-S401	•	•	-	QFN	19	Cortex®-M0+	24	-	-	32	-	4	-	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	-   -	-	-   -	-	-	-	-	Tray
CY8C4744AZI-S403	•	•	-	QFP	36	Cortex®-M0+	48	-	-	32	-	2	-	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	-   .	-	-   -	-	-	-	-	Tray
CY8C4744FNI-S402T	•	•	-	WLCSP	21	Cortex®-M0+	48	-	-	16	-	2	-	85	5.5	-40	1.7	-	- 1	2 5	-	-	2	-	-	-	-   -	-	-	-	-	Reel
CY8C4744LQI-S401	•	•	-	QFN	19	Cortex®-M0+	48	-	-	16	-	2	-	85	5.5	-40	1.7	-	- 1	2 5	-	-	2	-	-	-	-   -	-	-	-	-	Tray
CY8C4745AZI-S403	•	•	-	QFP	36	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	8	-	-   -	-	-	-	-	Tray
CY8C4745AZI-S413	•	•	•	QFP	36	Cortex®-M0+	48	-	-	32	-	4	l	85	5.5	-40	1.7	-	- :	2 5	-	-	2	-	16	-	_   .	-	-	-	-	Tray
CY8C4745FNI-S402T	•	•	-	WLCSP	21	Cortex®-M0+	48	-	_	32	-	4	-	85	5.5	-40	1.7	-	- 1	2 5	-	-	2		8	-	_	-	_	-	-	Reel

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Мах. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators # Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# 510	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 PS-Series	5					ı																										
CY8C4745FNI-S412T	•	•	•	WLCSP	21	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2 5		-	2	-	-	-	-	-	-	-	-	Reel
CY8C4745LQI-S401	•	•	-	QFN	19	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2 5	-	-	2	-	-	-	-	-	-	-	-	Tray
CY8C4745LQI-S411	•	•	•	QFN	19	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2 5	-	-	2	-	8	-	-	-	-	-	-	Tray
PSoC <sup>™</sup> 4100 S-Series						<u> </u>																										
CY8C4124AZI-S413	•	•	•	QFP	36	Cortex®-M0+	24	-	-	16	-	4	•	85	5.5	-40	1.7	-	1	2 5		2	2	-	16	-	-	-	-	-	-	Tray
CY8C4124AZI-S413T	•	•	•	QFP	36	Cortex®-M0+	24	-	-	16	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16	-	-	-	-	-	-	Reel
CY8C4124AZI-S433	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16	-	-	-	-	-	-	Tray
CY8C4124AZI-S433T	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16	-	-	-	-	-	-	Reel
CY8C4124FNI-S403	•	•	-	WLCSP	31	Cortex®-M0+	24	-	-	16	-	4	•	85	5.5	-40	1.7	-	1	2 5		2	2	-	8	-	-	-	-	-	-	
CY8C4124FNI-S403T	•	•	-	WLCSP	31	Cortex®-M0+	24	-	-	16	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	8	-	-	-	-	-	-	Reel
CY8C4124FNI-S413	•	•	•	WLCSP	31	Cortex®-M0+	24	-	-	16	_	4	•	85	5.5	-40	1.7	_	1	2 5		2	2	-	16	-	-	-	-	-	-	
CY8C4124FNI-S413T	•	•	•	WLCSP	31	Cortex®-M0+	24	-	-	16	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16	-	-	-	-	-	-	Reel
CY8C4124FNI-S433	ı	l	l	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	4	l	85	5.5	-40	1.7	-	1	2	5 -	2	2	-	16	-	-	-	-	-	-	-	-
CY8C4124FNI-S433T	ı	l	l	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	l	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16	-	-	-	-	-	-	Reel
CY8C4124LQI-S412	ı	l	l	QFN	27	Cortex®-M0+	24	-	-	16	-	4	l	85	5.5	-40	1.7	-	1	2 5		2	2	-	16	-	-	-	-	-	-	Tray
CY8C4124LQI-S412T	ı	l	l	QFN	27	Cortex®-M0+	24	-	-	16	-	4	l	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16	-	-	-	-	-	-	Reel
CY8C4124LQI-S413	ı	l	l	QFN	34	Cortex®-M0+	24	-	-	16	-	4	l	85	5.5	-40	1.7	_	1	2 5		2	2	-	16	-	-	-	_	-	-	Tray
CY8C4124LQI-S413T	ı	l	l	QFN	34	Cortex®-M0+	24	-	-	16	-	4	l	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16	-	-	-	-	-	-	Reel
CY8C4124LQI-S432		· l	ι	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	l	85	5.5	-40	1.7	-	1	2 5		2	2	-	16	-	-	-	-	-	-	Tray

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators # Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	018#	# Smart I/Os # I Iniversal analog blocks	# Inivarcal digital blocks	# USB 10	Part family	 	USB (type) Package carrier
PSoC™ 4100 S-Series		•		OFN	27	Cartav® MO	24	CAD /1 12 hit O 000 lane)		16		4		0.5		40	1.7		1	2 5		2	2		16	1				David
CY8C4124LQI-S432T				QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	•	85	5.5	-40	1.7	-		2 5		2	2		16 -			-		- Reel
CY8C4124LQI-S433		•		QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	•	85	5.5	-40	1.7	-		2 5		2	2		16 -			-		- Tray
CY8C4124LQI-S433T CY8C4125AXI-S423	•		•	QFN QFP	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16 32	-	4	•	85	5.5	-40 -40	1.7	_		2   5 2   5		2	2		16 - 16 -			_		- Reel
CY8C4125AXI-S433		•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps) SAR (1, 12-bit @ 806 ksps)		32	-	4	•	85 85	5.5	-40	1.7	_		2 5		2	2		16 -					- Tray
CY8C4125AZI-S413		•		QFP	36	Cortex®-M0+	24			32	_	4	•	85	5.5	-40	1.7	_		2 5		2	2		16 -					- Tray
CY8C4125AZI-S413T		•		QFP	36	Cortex®-M0+	24	_		32		4	•	85	5.5	-40	1.7	_		2 5		2	2		16 -					- Reel
CY8C4125AZI-S423		•		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	32	_	4	•	85	5.5	-40	1.7	_		2 5		2	2		16 -			_		- Tray
CY8C4125AZI-S423T	•		-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	32	_	4	•	85	5.5	-40	1.7	_		2 5		2	2		16 -			_		- Reel
CY8C4125AZI-S433		•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	32	_	4	•	85	5.5	-40	1.7	_		2 5		2	2		16 -		.   _	_		- Tray
CY8C4125AZI-S433KT			•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	32	_	4	•	85	5.5	-40	1.7	_		2 5		2	2		16 -			_		- Tray
CY8C4125AZI-S433T	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	32	_	4	•	85	5.5	-40	1.7	_		2 5	-	2	2		16 -		.   _	_	 -	- Reel
CY8C4125AZQ-S433	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	32	-	4	•	105	5.5	-40	1.7	-	1	2 5	-	2	2	- :	16 -			-		- Tray
CY8C4125FNI-S413	•	•	•	WLCSP	31	Cortex®-M0+	24	-	-	32	_	4	•	85	5.5	-40	1.7	_	1	2 5	-	2	2	- :	16 -			_	 -	
CY8C4125FNI-S413T	•	•	•	WLCSP	31	Cortex®-M0+	24	-	_	32	_	4	•	85	5.5	-40	1.7	_	1	2 5	-	2	2	- :	16 -			_	 -	- Reel
CY8C4125FNI-S423	•	•	-	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- 1	16 -	.   .		-	 -	
CY8C4125FNI-S423T	•	•	-	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	32	_	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- :	16 -		.   -	-	 -	- Reel
CY8C4125FNI-S433	•	•	•	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- :	16 -	.   -		-	 -	
CY8C4125FNI-S433T	•	•	•	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- :	16 -			-	-	- Reel

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	015#	# Smart I/Os # Universal analog blocks	# Universal digital blocks	# USB 10	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 S-Series																															
CY8C4125LQI-S412	•	•	•	QFN	27	Cortex®-M0+	24	-	-	32	-	4	•	85	5.5	-40	1.7	-		2 5	-	2	2		16 -	-	-	-	-	-	Tray
CY8C4125LQI-S412T	•	•	•	QFN	27	Cortex®-M0+	24	-	-	32	-	4	•	85	5.5	-40	1.7	-		2 5	-	2	2	-   :	16 -	-	-	-	-	-	Reel
CY8C4125LQI-S413	•	•	•	QFN	34	Cortex®-M0+	24	-	-	32	-	4	•	85	5.5	-40	1.7	-		2 5	-	2	2	-	16 -	-	-	-	-	-	Tray
CY8C4125LQI-S413KG	•	•	•	QFN	34	Cortex®-M0+	24	-	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16 -	-	-	-	-	-	Tray
CY8C4125LQI-S413T	•	•	•	QFN	34	Cortex®-M0+	24	-		32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- 1	16 -	-		-	-	-	Reel
CY8C4125LQI-S422	•	•	-	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-   :	16 -	-	-	-	-	-	Tray
CY8C4125LQI-S422T	•	•	-	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16 -	<u> </u>	-	-	-	-	Reel
CY8C4125LQI-S423	•	•	-	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16 -	-	-	-	-	-	Tray
CY8C4125LQI-S423T	•	•	-	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)		32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- 1	16 -		-	-	-	-	Reel
CY8C4125LQI-S432	•	•	•	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	-	16 -	-	-	-	-	-	Tray
CY8C4125LQI-S432T	•	•	•	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- :	16 -	-	-	-	-	-	Reel
CY8C4125LQI-S433	•	•	•	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- :	16 -	-	-	-	-	-	Tray
CY8C4125LQI-S433T	•	•	•	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- :	16 -	-	-	-	-	-	Reel
CY8C4125LQQ-S432	•	•	•	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	105	5.5	-40	1.7	-	1	2 5	-	2	2	-	16 -	-	-	PSoC™ 4	-	-	Tray
CY8C4126AXI-S423	•	•	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2 5	-	2	3	-	16 -	<u> </u>	-	_	-	-	Tray
CY8C4126AXI-S433	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2 5	-	2	3	-	16 -	-	-	-	-	-	Tray
CY8C4126AXI-S443	•	•	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	_	8	•	85	5.5	-40	1.7	_	1	2 8	8	2	4	-	-   -	-	-	_	-	-	Tray
CY8C4126AXI-S445	•	•	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	_	8	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-	-	-	-	-	Tray
CY8C4126AXI-S453	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	_	8	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	<u> </u>	_	-	_	_	Tray

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os # Haivoreal analog blocks	# Universal digital blocks	#USBIO	Part family	PLL	USB (type) Package carrier	
PSoC <sup>™</sup> 4100 S-Series CY8C4126AXI-S455		•		FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	_	8	•	85	5.5	-40	1.7	_	1	2 8	8	2	4	_	_	Ŧ	_			- Tray	<u> </u>
CY8C4126AXQ-S433		•		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)		64	_	8	•	105	5.5	-40	1.7	_		2 5	-	2	3		16 -			PSoC™ 4	_	- Tray	
CY8C4126AZI-S423		•		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)		64		8	•	85	5.5	-40	1.7	_		2 5	-	2	3		16 -			-	_	- Tray	
CY8C4126AZI-S423T		•		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	_	8	•	85	5.5	-40	1.7	_		2 5	-	2	3		16 -			_	_	- Reel	-
CY8C4126AZI-S433		•		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)		64	_	8	•	85	5.5	-40	1.7	_		2 5	-	2	3		16 -			_	_	- Tray	
CY8C4126AZI-S433T				QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	_	8	•	85	5.5	-40	1.7	_		2 5	-	2	3		16 -			_	_	- Reel	
CY8C4126AZI-S445		•		FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)		64	_	8	•	85	5.5	-40	1.7	_		2 8	8	2	4					_	-	- Tray	
CY8C4126AZI-S455		•		FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	64	_	8	•	85	5.5	-40	1.7	_		2 8	8	2	4	_				_	_	- Tray	-
CY8C4126AZQ-S423		•		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	64	_	8	•	105	5.5	-40	1.7	-		2 5	_	2	3	_	16 -		_	_	-	- Tray	
CY8C4126AZQ-S433	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	64	_	8	•	105	5.5	-40	1.7	_		2 5	_	2	3		16 -			_	_	- Tray	
CY8C4127AXI-S443			-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	128	_	16	•	85	5.5	-40	1.7	_		2 8	8	2	4					_	-	- Tray	
CY8C4127AXI-S445	•	•	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	128	_	16	•	85	5.5	-40	1.7	_	1	2 8	8	2	4	_	_   -			_	_	- Tray	-
CY8C4127AXI-S453	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	128	-	16	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-			_	_	-	- Tray	
CY8C4127AXI-S455	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	_	16	•	85	5.5	-40	1.7	_	1	2 8	8	2	4	_		.   .	_	_	_	- Tray	y
CY8C4127AZI-S443		•	-	QFP	38	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	128	-	16	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-			-	_	-	- Tray	
CY8C4127AZI-S445	•	•	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -			-	-	- Tray	
CY8C4127AZI-S453	•	•	-	QFP	38	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	128	-	16	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-		-   -		-	-	- Tray	
CY8C4127AZI-S455	•	•	•	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-				-	-	- Tray	у
CY8C4127AZQ-S445	•	•	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	•	105	5.5	-40	1.7	-	1	2 8	8	2	4	-			-	-	-	– Tray	y

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Us # Universal analog blocks	# Universal digital blocks	# USB 10	Part family	PLL	USB (type)	Package carrier
PSoC <sup>™</sup> 4100 S-Series CY8C4127AZQ-S455				FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	_	128	-	16	•	105	5.5	-40	1.7	_	1 :	2 8	8	2	4	_	-   -	T -	_	_	_	_	Tray
CY8C4145AXI-S423				QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	_	4	•	85	5.5	-40	1.7	_		2 5	-	2	3	- 1	16 -		_	_	_		Tray
CY8C4145AXI-S433				QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	32	_	4	•	85	5.5	-40	1.7	_	1 :	2 5	-	2	3		16 -	<u> </u>	_	_	-	-	Tray
CY8C4145AXQ-S433		•		QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	•	105	5.5	-40	1.7	_	1 :	2 5	-	2	3	- 1	16 -	-	-	PSoC™ 4	-	-	Tray
CY8C4145AZI-S423	•		-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	32	-	4	•	85	5.5	-40	1.7	-	1 :	2 5	-	2	3	- 1	L6 –	-	-	_	-	-	Tray
CY8C4145AZI-S423T	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	•	85	5.5	-40	1.7	-	1 :	2 5	-	2	2	- 1	L6 -	-	-	-	-	-	Reel
CY8C4145AZQ-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	•	105	5.5	-40	1.7	-	1	2 5	-	2	3	- 1	L6 –	-	-	-	-	-	Tray
CY8C4146AXI-S423	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 :	2 5	-	2	3	- :	L6 –	-	-	-	-	-	Tray
CY8C4146AXI-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 :	2 5	-	2	3	- :	L6 –	T-	-	-	-	-	Tray
CY8C4146AXI-S443	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-	-	-	-	-	Tray
CY8C4146AXI-S445	•	•	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-	-	-	-	-	Tray
CY8C4146AXI-S453	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 :	2 8	8	2	4	-	-   -	-	-	-	-	-	Tray
CY8C4146AXI-S455	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)		64	-	8	•	85	5.5	-40	1.7	-	1	2 8	8	2	4	-	-   -	-	-	-	-	-	Tray
CY8C4146AXQ-S423	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	105	5.5	-40	1.7	-	1	2 5	-	2	3	- 1	L6 -	-	-	PSoC™ 4	-	-	Tray
CY8C4146AXQ-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	_	8	•	105	5.5	-40	1.7	-	1 :	2 5	-	2	3	- 1	L6 –	-	-	PSoC™ 4	-	-	Tray
CY8C4146AZI-S423		•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3	- 1	L6 –	-	-	-	-	-	Tray
CY8C4146AZI-S423T	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- 1	L6 –	-	-	-	-	-	Reel
CY8C4146AZI-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2 5	-	2	3	- 1	L6 –	-	-	-	-	-	Tray
CY8C4146AZI-S433T	-	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	4	•	85	5.5	-40	1.7	-	1	2 5	-	2	2	- :	L6 –	-	-	-	-	-	Reel

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os # Imitografian placks	# Olliver sat ariang blocks	# USB IO		Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 S-Series CY8C4146AZI-S445		•		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	_	8	•	85	5.5	-40	1.7	_	1 2	2 8	8	2	4	_	_   .	_	_   _			_		Trav
CY8C4146AZI-S453		•		QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)		64	_	8	•	85	5.5	-40	1.7	_	1 2		8	2	4						_	_	-	Tray
CY8C4146AZI-S455			•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)		64	_	8	•	85	5.5	-40	1.7	_	1 2		8	2	4						_		-	Tray
CY8C4146AZI-S463		•		QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)		64	_	8	•	85	5.5	-40	1.7	1	1 2		8	2	4						_	_	_	Tray
CY8C4146AZQ-S423		•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)		64	_	8	•	105	5.5	-40	1.7	_	1 2		_	2	3		16 -				_	_	_	Tray
CY8C4146AZQ-S433		•		QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	_	8	•	105	5.5	-40	1.7	_		2 5	-	2	3		16 -		_   _		_	_	_	Tray
CY8C4146AZQ-S445				FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	_	8	•	105	5.5	-40	1.7			2 8	8	2	4						_	_	_	Tray
CY8C4146AZQ-S455		•		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	_	8	•	105	5.5	-40	1.7	_		2 8	8	2	4	_				_	_	_	_	Tray
CY8C4146FNI-S423		•	-	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	_	8	•	85	5.5	-40	1.7	_		2 5	-	2	3	_	16 -			-	_	_	_	_
CY8C4146FNI-S423T		•	-	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	_	8	•	85	5.5	-40	1.7	_		2 5	-	2	3		1.0			-	_	_	-	Reel
CY8C4146FNI-S433		•	•	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	_	8	•	85	5.5	-40	1.7	_	1 2	2 5	-	2	3	-	16 -		-   -		_	-	-	_
CY8C4146FNI-S433T	•	•	•	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	_	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3		16 -	-   .	-   -	-	_	-	-	Reel
CY8C4146FNI-S443T	•	•	•	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	-	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3	- 1	16 -		-   -	-	-	_	-	Reel
CY8C4146LQI-S422	•	•	-	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3	-	16 -	-	-   -	-	-	-	-	Tray
CY8C4146LQI-S422T	•	•	-	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	-	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3	-	16 -		-   -	-	-	-	-	Reel
CY8C4146LQI-S423	•	•	-	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3	-	16 -	-   -	-   -	-	-	-	-	Tray
CY8C4146LQI-S423T	•	•	-	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3	-	16 -	-	-   -	-	-	-	-	Reel
CY8C4146LQI-S432	•	•	•	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3	-	16 -	-   .	-   -	-	-	-	-	Tray
CY8C4146LQI-S432T	•	•	•	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	85	5.5	-40	1.7	-	1 2	2 5	-	2	3	-	16 -	-	-   -	-	-	-	-	Reel

Product type/partnumber	Industrial Consumer	CapSense	Package	#GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# Op Amps	# Serial communication blocks	015#	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 S-Series		•	QFN	24	Cortov® MO	40	SAR (1, 12-bit @ 1 msps)		64		0		O.F.	E E	40	1 7		1	2	5 -	- 2	3		16							Trou
CY8C4146LQI-S433	• •			34	Cortex® MO	48		_		_	8	•	85	5.5	-40	1.7	-						-		-	-	-		-	-	Tray
CY8C4146LQI-S433T			QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8		85	5.5	-40	1.7	-	1		5 -			-	16		-			-	-	Reel
CY8C4146LQQ-S422	• •		QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	_	64	-	8	•	105	5.5	-40	1.7	-	1		5 -			-	16	-	-		PSoC™ 4	-	-	Tray
CY8C4146LQQ-S432	• •		QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	105	5.5	-40	1.7	-	1		5 -			-	16	-	-	-	PSoC™ 4	-	-	Tray
CY8C4147AXI-S443	• •		QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-		-	-	Tray
CY8C4147AXI-S445	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AXI-S453	• •		QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-		-	-	Tray
CY8C4147AXI-S455	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	4.0	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-		-	-	Tray
CY8C4147AXI-S465	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	1	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AXI-S475	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	1	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S443	• •		QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S445	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S453	• •		QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-		-	-	Tray
CY8C4147AZI-S455	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S465	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	1	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S475	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	-	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AZQ-S445	• •		FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)		128	-	16	•	105	5.5	-40	1.7	-	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AZQ-S455	• •	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	105	5.5	-40	1.7	-	1		8 8			-	-	-	-	-	-	-	-	Tray
CY8C4147AZQ-S465	• •	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	105	5.5	-40	1.7	1	1	2	8 8			-	-	-	-	-	_	-	-	Tray
CY8C4147AZQ-S475	• •	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	105	5.5	-40	1.7	-	1	2	8 8	3 2	4	-	-	-	-	-	-	-	-	Tray

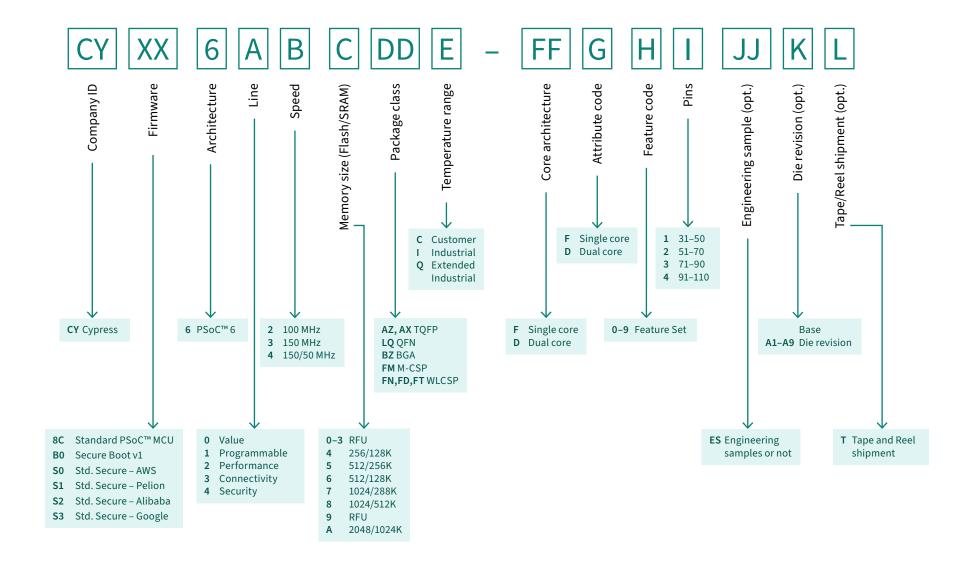
Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators # Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO # Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4200 Series CY8C4244AXQ-443		•	•	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FA1193	16	4	4	•	105	5.5	-40	1.7	_	2	2 4	1 _	2	2	_   _	l _	2		_	_	_	Tray
CY8C4244AZI-443		•	•	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04DA1193	16	4	4	•	85	5.5	-40	1.7	_		2 4		2		_   _		2	_	_	_	_	Tray
CY8C4244FNI-443T		•	•	WLCSP	31	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	_	16	4	4	•	85	5.5	-40	1.7	-		2 4	1 -	2			-	2	_	_	_	_	Reel
CY8C4244LQI-443	•	•	•	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F61193	16	4	4	•	85	5.5	-40	1.7	-		2 4	4 -	2		-   -	-	2	_	_	_	-	Tray
CY8C4244LQQ-443	•	•	•	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F61193	16	4	4	•	105	5.5	-40	1.7	-	2	2 4	4 –	2	2	_	-	2	-	-	-	-	Tray
CY8C4244PVI-442	•	•	•	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F11193	16	4	4	•	85	5.5	-40	1.7	-	1	2 4	4 -	1	2	_   _	-	2	-	_	_	-	Tube
CY8C4244PVQ-432	•	•	-	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F01193	16	4	4	-	105	5.5	-40	1.7	-	1	2 4	4 -	1	2	-   -	-	2	-	-	-	-	Tube
CY8C4244PVQ-442	•	•	•	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F11193	16	4	4	•	105	5.5	-40	1.7	-	1	2 4	4 -	1	2	-   -	-	2	-	-	-	-	Tube
CY8C4245AXI-473	•	•	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FB1193	32	4	4	-	85	5.5	-40	1.7	-	2	2 4	4 -	2	2	-   -	-	4	-	-	-	-	Tray
CY8C4245AXI-483	•	•	•	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	-	4	•	85	5.5	-40	1.7	-	2	2 4	4 –	2	2	-   -	-	4	-	-	-	-	Tray
CY8C4245AXQ-473	•	•	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FB1193	32	4	4	-	105	5.5	-40	1.7	-	2	2 4	4 –	2	2	-   -	-	4	-	-	-	-	Tray
CY8C4245AXQ-483	•	•	•	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	-	4	•	105	5.5	-40	1.7	-	2	2 4	4 -	2	2	-   -	-	4	-	-	-	-	Tray
CY8C4245AZI-473	•	•	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04DB1193	32	4	4	-	85	5.5	-40	1.7	-	2	2 4	4 -	2	2	-   -	-	4	-	-	-	-	Tray
CY8C4245AZI-483	•	•	•	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	-	4	•	85	5.5	-40	1.7	-	2	2 4	4 –	2	2	-   -	-	4	-	-	-	-	Tray
CY8C4245FNI-483T	•	•	•	WLCSP	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04E81193	32	-	4	•	85	5.5	-40	1.7	-	2	2 4	4 -	2	2	-   -	-	4	-	-	-	-	Reel
CY8C4245LQI-483	•	•	•	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	-	4	•	85	5.5	-40	1.7	-	2	2 4	4 -	2	2	-   -	-	4	-	-	-	-	Tray
CY8C4245LQI-483T	•	•	•	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	-	4	•	85	5.5	-40	1.7	-	2	2 4	4 -	2	2	-   -	-	4	-	-	-	-	Reel
CY8C4245LQQ-483	•	•	•	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	-	4	•	105	5.5	-40	1.7	-	2	2 4	4 –	2	2	-   -	-	4	-	-	-	-	Tray
CY8C4245PVI-482	•	•	•	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04A61193	32	_	4	•	85	5.5	-40	1.7	-	1	2 4	4 -	1	2	-   -	_	4	-	-	-	-	Tube
CY8C4245PVQ-482	•	•	•	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04A61193	32	-	4	•	105	5.5	-40	1.7	-	1	2 4	4 -	1	2	-   -	-	4	-	-	-	-	Tube

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Мах. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks # Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Serial communication blocks	# SIO	# Smart I/Os # Haivorgal analog blocks	# Universal digital blocks	#USBIO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4200 DS-Series													ı																	
CY8C4245FNI-DS402T	•	•	-	WLCSP	21	Cortex®-M0	48	-		32	-	4	-	85	5.5	-40	1.7	-	- 2		8 -		-	-   -	- 4	-	-	-	-	Reel
CY8C4246FNI-DS402T	•	•	-	WLCSP	21	Cortex®-M0	48	-	-	64	-	8	-	85	5.5	-40	1.7	-	- 2	4	8 -	- 3	-	-   -	- 4	-	-	-	-	Reel
PSoC™ 4200 L-Series																														
CY8C4246AZI-L423	•	•	•	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100211A0	64		8	•	85	5.5	-40	1.7	-	1 2	8	32 2	2 3	2	- -	- 8	-	-	•	-	Tray
CY8C4246AZI-L423T	•	•	•	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100211A0	64		8	•	85	5.5	-40	1.7	-	1 2	8	32 2	2 3	2	-   -	- 8	-	-	•	-	Reel
CY8C4246AZI-L433	•	•	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100011A0	64		8	-	85	5.5	-40	1.7	-	1 2	8	32 2	2 3	2	- -	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4246AZI-L433T	•	•	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100011A0	64	_	8	-	85	5.5	-40	1.7	-	1 2	8	32 2	2 3	2	- -	- 8	2	-	•	USB 2.0 full-speed client contr.	Reel
CY8C4246AZI-L435	•	•	-	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100111A0	64	-	8	-	85	5.5	-40	1.7	-	1 2	8	32 2	4	2	-   -	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4246AZI-L445	•	•	•	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100311A0	64	-	8	•	85	5.5	-40	1.7	-	1 2	8	32 2	2 4	2	-   -	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4246LTI-L445	•	•	•	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100411A0	64	-	8	•	85	5.5	-40	1.7	-	1 2	8	32 2	4	2	-   -	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L423	•	•	•	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100511A0	128	-	16	•	85	5.5	-40	1.7	-	1 2	8	32	2 3	2	-   -	- 8	-	-	•	-	Tray
CY8C4247AZI-L423T	•	•	•	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100511A0	128	-	16	•	85	5.5	-40	1.7	-	1 2	8	32 2	2 3	2	-   -	- 8	-	-	•	-	Reel
CY8C4247AZI-L433	•	•	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101511A0	128	-	16	-	85	5.5	-40	1.7	-	1 2	8	32 2	2 3	2	-   -	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L433T	•	•	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101511A0	128	-	16	-	85	5.5	-40	1.7	-	1 2	8	32 2	2 3	2	- -	- 8	2	-	•	USB 2.0 full-speed client contr.	Reel
CY8C4247AZI-L445	•	•	•	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100611A0	128	-	16	•	85	5.5	-40	1.7	-	1 2	8	32 2	2 4	2	-   -	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L475	•	•	•	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100811A0	128	-	16	-	85	5.5	-40	1.7	-	2 2	8	32	4	2	-   -	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L485	•	•	•	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100B11A0	128	-	16	•	85	5.5	-40	1.7	2	2 2	8	32 4	4	2	-	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4247BZI-L479	•	•	•	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100A11A0	128	-	16	-	85	5.5	-40	1.7	-	4 2	8	32	2	2	-   -	- 8	2	-	•	USB 2.0 full-speed client contr.	Tray
CY8C4247BZI-L479T	•	•	•	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100A11A0	128	-	16	-	85	5.5	-40	1.7	-	4 2	8	32 4	2	2	-   -	- 8	2	-	•	USB 2.0 full-speed client contr.	Reel

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks # Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks # IISB IO	Part family	PLL	USB (type)	Package carrier
PSoC <sup>™</sup> 4200 L-Series CY8C4247BZI-L489		•	•	BGA	00	Cortex®-M0	40	SAR (1, 12-bit @ 1 msps)	0x100D11A0	128		16		0.5	5.5	-40	1.7	2	4 2	8	32	1 2	2			8 2		•	USB 2.0 full-speed client contr.	Trov
CY8C4247LTI-L445		•	•		98 57		48		0x100D11A0	128	_	16 16	•	85 85	5.5	-40	1.7				32 2		2	_		8 2				Tray
				QFN		Cortex®-M0		SAR (1, 12-bit @ 1 msps)			_													-	-			•	USB 2.0 full-speed client contr.	Tray
CY8C4247LTI-L475  CY8C4247LTI-L485	•	•	•	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100911A0	128	_	16	-	85	5.5	-40	1.7			8		1 4	2	_	-	8 2		•	USB 2.0 full speed client contr.	Tray
				QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100C11A0	128	-	16	•	85		-40	1.7			8		1 4	2	-	-	8 2		•	USB 2.0 full speed client contr.	Tray
CY8C4248AZI-L475		•		FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100E11A0	256	-	32	-	85	5.5	-40	1.7		2 2		32 4		2	-		8 2		•	USB 2.0 full-speed client contr.	Tray
CY8C4248AZI-L485		•	•	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101111A0	256	_	32	•	85	5.5	-40	1.7			8	32 4		2	-		8 2		•	USB 2.0 full-speed client contr.	Tray
CY8C4248BZI-L469		•	-	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101711A0	256	_	32	•	85	5.5	-40	1.7		4 2			1 4	2	-		8 -			- LICD 2 0 ft.ll	Tray
CY8C4248BZI-L479		•		BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101011A0	256	_	32		85	5.5	-40	1.7				32 4			-	-	8 2		•	USB 2.0 full speed client contr.	Tray
CY8C4248BZI-L489		•		BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101311A0	256	_	32	•	85	5.5	-40	1.7	2	4 2			1 2	2	-	-	8 2		•	USB 2.0 full speed client contr.	Tray
CY8C4248LTI-L475		•	•	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100F11A0	256	-	32	-	85	5.5	-40	1.7		2 2			1 4	2	-		8 2		•	USB 2.0 full-speed client contr.	Tray
CY8C4248LTI-L485	•			QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101211A0	256	-	32	•	85	5.5	-40	1.7		2 2			1 4	2	-	-	8 2			USB 2.0 full-speed client contr.	Tray
CY8C4248LTQ-L485	<b> </b>	•	•	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101211A0	256	-	32	•	85	5.5	-40	1.7	2	2 2	8	32	1 4	2	-	-	8 2	-	•	USB 2.0 full-speed client contr.	Tray
PSoC™ 4200 M-Series				<b>FD</b>		0 1 0 110	40		0.4404	00				0.5		40														-
CY8C4245AXI-M445		•	•	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1124	32	-	4	•	85	5.5	-40	1.7	-	1 2			2 4	-	-		4 -		-	-	Tray
CY8C4245AZI-M433		•	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1120	32	-	4	•	85	5.5	-40	1.7		1 2			2 4	-	-		4 -		-	-	Tray
CY8C4245AZI-M443		•	•	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1121	32	-	4	•	85	5.5	-40	1.7		1 2			2 4	-	-		4 -		-	-	Tray
CY8C4245AZI-M445	•		•	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1122	32	-	4	•	85	5.5	-40	1.7		1 2			2 4	-	-		4 -		-	-	Tray
CY8C4245LTI-DM405	•		-	QFN	55	Cortex®-M0	48	-	0x1123	32	-	4	-	85	5.5	-40	1.7	-	- 2			- 4	-	-		4 -		-	-	Tray
CY8C4245LTI-DM405T	•	•	-	QFN	55	Cortex®-M0	48	_	0x1123	32	-	4	-	85	5.5	-40	1.7	-	- 2	8	8 -	- 4	-	-	-	4 -	-   -	-	-	Reel

Product type/partnumber Moost #Jose	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks # Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps # Serial communication blocks	# SOIS	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	PLL	USB (type)	Package carrier
CY8C4245LTI-M445	•	•	•	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1123	32	-	4	•	85	5.5	-40	1.7	-	1 2	8	8	2 4	-	-	-	4	-   -	.	-	Tray
CY8C4246AXI-M445	•	•	•	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x112A	64	-	8	•	85	5.5	-40	1.7	-	1 2	8	8	2 4	l –	-	-	4	-   -	-	-	Tray
CY8C4245AZI-M443	•	•	•	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1121	32	-	4	•	85	5.5	-40	1.7	-	1 2	8	8	2 4	ı –	-	-	4	-   -		-	Tray
CY8C4246AZI-M445	•	•	•	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1126	64	-	8	•	85	5.5	-40	1.7	-	1 2	8	8	2 4	- 1	-	-	4	-   -		-	Tray
CY8C4246AZI-M475	•	•	-	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1127	64	-	8	-	85	5.5	-40	1.7	-	2 2	8	8	4 4	- 1	-	-	4	-   -		-	Tray
CY8C4246AZQ-M443	•	•	•	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	-	64	-	8	•	105	5.5	-40	1.7	-	1 2	8	8	2 4	- 1	-	-	4	-   -		-	Tray
CY8C4246LTI-DM405	•	•	-	QFN	55	Cortex®-M0	48	-	0x1128	64	-	8	-	85	5.5	-40	1.7	-	- 2	8	8	_ 4	- 1	-	-	4			-	Tray
CY8C4246LTI-M445	•	•	•	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1128	64	-	8	•	85	5.5	-40	1.7	-	1 2	8	8	2 4	- 1	-	-	4	-   -		-	Tray
CY8C4246LTI-M475	•	•	-	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1129	64	-	8	-	85	5.5	-40	1.7	-	2 2	8	8	4 4	- 1	-	-	4	-   -		-	Tray
CY8C4247AXI-M485	•	•	•	FP	48	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x112E	128	-	16	•	85	5.5	-40	1.7	2	2 2	8	-	4 4	- 1	-	-	4	-   -	-   -	-	Tray
CY8C4247AXQ-M485	•	•	•	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	85	5.5	-40	1.7	2	2 2	8	8	4 4	- 1	-	-	4	-   -	-   -	-	Tray
CY8C4247AZI-M475	•	•	-	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x112C	128	-	16	-	85	5.5	-40	1.7	-	2 2	8	8	4 4	- 1	-	-	4	-   -		-	Tray
CY8C4247AZI-M475T	•	•	-	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x112C	128	-	16	-	85	5.5	-40	1.7	-	2 2	8	8	4 4	- 1	-	-	4	-   -	-   -	-	Reel
CY8C4247AZI-M485	•	•	•	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112D	128	-	16	•	85	5.5	-40	1.7	2	2 2	8	8	4 4	- 1	-	-	4	-   -	-   -	-	Tray
CY8C4247AZQ-M485	•	•	•	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	_	128	-	16	•	105	5.5	-40	1.7	2	2 2	8	8	4 4	- 4	-	_	4	-   -	-   -	_	Tray
CY8C4247AZQ-M485T	•	•	•	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	•	105	5.5	-40	1.7	2	2 2	8	8	4 4	- 1	-	-	4	-   -	-   -	-	Reel
CY8C4247LTI-M475	•	•	•	QFN	48	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112B	128	-	16	•	85	5.5	-40	1.7	-	2 2	8	8	4 4	- ا	-	_	4	-   -		-	Tray
CY8C4247LTQ-M475	•	•	-	QFN	48	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112B	128	-	16	-	85	5.5	-40	1.7	-	2 2	8	8	4 4	- 1	-	-	4	-   -	-   -	-	Tray

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Мах. Operating temp. [°С]	Мах. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks # Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps # Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# OSE 10 Part family	) Ind	USB (type)	Package carrier
PSoC <sup>™</sup> 4700 S-Series																														
CY8C4724FNI-S402T	•	•	-	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	!   -	-	-	-	-   -	-	-	Reel
CY8C4724LQI-S401	•	•	-	QFN	19	Cortex®-M0+	24	-	-	16	-	2	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	!   -	-	-	-	-   -	-	-	Tray
CY8C4725FNI-S402T	•	•	-	WLCSP	21	Cortex®-M0+	24	-	-	32	_	4	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	:   -	-	-	-	-   -	-	-	Reel
CY8C4725LQI-S401	•	•	-	QFN	19	Cortex®-M0+	24	-	-	32	-	4	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	!   -	-	-	-	-   -	-	-	Tray
CY8C4744AZI-S403	•	•	-	QFP	36	Cortex®-M0+	48	_	-	32	-	2	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	!   -	-	-	-	-   -	-	-	Tray
CY8C4744FNI-S402T	•	•	-	WLCSP	21	Cortex®-M0+	48	_	-	16	-	2	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	!   -	-	-	-	-   -	-	-	Reel
CY8C4744LQI-S401	•	•	-	QFN	19	Cortex®-M0+	48	_	-	16	-	2	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	!   -	-	-	-	-   -	-	-	Tray
CY8C4745AZI-S403	•	•	-	QFP	36	Cortex®-M0+	48	_	-	32	-	4	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	!   -	8	-	-	-   -	-	-	Tray
CY8C4745AZI-S413	•	•	•	QFP	36	Cortex®-M0+	48	_	_	32	-	4	•	85	5.5	-40	1.7	-	- 2	5	-	- 2	! -	16	-	-	-   -	-	-	Tray
CY8C4745FNI-S402T	•	•	-	WLCSP	21	Cortex®-M0+	48	_	-	32	-	4	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	! -	8	-	-	-   -	-	-	Reel
CY8C4745FNI-S412T	•	•	•	WLCSP	21	Cortex®-M0+	48	_	-	32	-	4	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	! -	-	-	-	-   -	-	-	Reel
CY8C4745LQI-S401	•	•	-	QFN	19	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	! -	-	-	-	-   -	-	-	Tray
CY8C4745LQI-S411	•	•	•	QFN	19	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	- 2	5	-	- 2	!   -	8	-	-	-   -	-	-	Tray



Product type/partnumber	Industrial	sumer	BLE Maximum Data Rate [Mbps]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	Sense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	1 <sup>2</sup> S	LCD direct drive  Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	10	PDM-PCM	Smart I/O	FS-USB	Package carrier
PSoC™ 61 Ser	ies																															
CY8C6136F- TI-F42T	•	•	-   -	-   -	-	•	WLC SP		Cortex®-M4	150	_	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	• 85	3.6	-40	1.7	-	2	-	32	32	-	9	2	16	Dual host and device	Reel
CY8C6145A- ZI-S3F42	•	•	-   -	-   -	-	•	QFP	64	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256	-	• 85	3.6	-40	1.7	-	2	-	12	2	-	6	- (	8	Dual host and device	Tray
CY8C6145A- ZI-S3F12	•	•	-   -	-   -	-	•	QFP	64	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	512	256	- (	• 85	3.6	-40	1.7	-	2	-	12	2	-	6	- (	8	Dual host and device	Tray
CY8C6145A- ZI-S3F62	•	•			-	-	QFP	64	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	512	256	-	• 85	3.6	-40	1.7	1	2	-	12	2	-	6	- (	8	Dual host and device	Tray
CY8C614AA- ZI-S2F14	•	•			-	•	QFP	102	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	62	-	12	2	16	Dual host and device	Tray
CY8C6145A- ZI-S3F02	•	•	-   -		-	-	QFP	64	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	512	256	- (	• 85	3.6	-40	1.7	-	2	-	12	2	-	6	- (	8	Dual host and device	Tray
CY8C614AB- ZI-S2F44	•	•	-   -	-   -	-	•	BGA	102	Cortex®-M4	150	_	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	3	-	13	2	• 16	Dual host and device	Tray
CY8C614AA- ZI-S2F04	•	•			-	-	QFP	102	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	62	-	13	2	16	Dual host and device	Tray
CY8C6145L- QI-S3F62	•	•			-	-	QFN	53	Cortex®-M4	150	_	-	SAR (1, 12-bit @ 1 msps)	_	512	256	- (	• 85	3.6	-40	1.7	1	2	-	12	2	-	6	- (	8	Dual host and device	Tray
CY8C6145L- QI-S3F72	•	•		-   -	-	•	QFN	53	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256	-	• 85	3.6	-40	1.7	1	2	-	12	2	-	6	- 0	8	Dual host and device	Tray
CY8C6148B- ZI-S2F44	•	•	- -		-	•	BGA	102	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	1024	512	2	• 85	3.6	-40	1.7	-	2	-	32	3	-	13	2	16	Dual host and device	Tray
CY8C6145L- QI-S3F02	•	•	-   -		-	-	QFN	53	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	512	256	- (	• 85	3.6	-40	1.7	-	2	-	12	2	-	6	- (	8	Dual host and device	Tray
CY8C6145L- QI-S3F12	•	•	- -	-   -	-	•	QFN	53	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	512	256	- (	• 85	3.6	-40	1.7	-	2	-	12	2	-	6	- (	8	Dual host and device	Tray
CY8C614AF- NI-S2F43T	•	•	-   -		-	•	WLC SP	82	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	3	-	13	2	16	Dual host and device	Reel

Product type/partnumber	Industrial	sumer	BLE Maximum Data Rate [Mbps]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	1 <sup>2</sup> S	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I <sup>2</sup> C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O FS-USB	Package carrier
PSoC™ 61 Seri	ies																					1										
CY8C6148A- ZI-S2F44	•	•	-   -	-   -	-	•	QFP	102	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	_	1024	512	2	85	3.6	-40	1.7	-	2	-	32	62	-	13	2	•	Dual host and device	Tray
CY8C6148F- NI-S2F43T	•	•	-   -		-	•	WLC- SP	82	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	1024	512	2	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	Dual host and device	Reel
CY8C614AF- NI-S2F03T	•	•	-   -	-   -	-	-	WLC- SP	82	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	Dual host and device	Reel
CY8C614AB- ZI-S2F04	•	•	- -		-	-	BGA	102	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	Dual host and device	Tray
CY8C6145L- QI-S3F42	•	•	-   -		-	•	QFN	53	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256		85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8 Dual host and device	Tray
CY8C6136B- ZI-F14	•	•	- -		-	•	BGA	104	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	Dual host and device	Tray
CY8C6137B- ZI-F54	•	•	-   -	-   -	-	•	BGA	104	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	Dual host and device	Tray
CY8C6117B- ZI-F34	•	•	- -	-   -	-	•	BGA	104	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•   :	Dual host and device	Tray
CY8C6116B- ZI-F54	•	•	- -	-   -	-	•	BGA	104	Cortex®-M4	50	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	Dual host and device	Tray
CY8C6117B- ZI-F34T	•	•	- -	-   -	-	•	BGA	104	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	Dual host and device	Reel
CY8C6145F- NI-S3F41T	•	•	- -		-	•	WLC- SP	37	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256	- (	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8 -	Reel
CY8C6145F- NI-S3F71T	•	•	- -		-	•	WLC- SP	37	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256	- (	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	•	8 -	Reel
CY8C6145F- NI-S3F11T	•	•	-   -	-   -	-	•	WLC- SP	37	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	_	512	256	- (	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8 –	Reel
CY8C6117F- DI-F02T	•	•			-	-	WLC- SP	-	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	Dual host and device	Reel

Product type/partnumber	Industrial	nsumer	BLE Power Output [dBm]	RX Sen	BLE Supported Frequency band [GHz]		Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	1 <sup>2</sup> S	LCD direct drive  Max. Operating temp. [°C]	Operating voltag	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I <sup>2</sup> C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 61 Seri	ies										l		0.0/4 40.1:	/a ao l :: o																			
CY8C6137F- DI-F02T	•	•	-   -	-	-	-	WLC- SP	-	Cortex®-M4	150	_	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	Dual host and device	Reel
CY8C6136F- DI-F42T	•	•	-   -	_	-	•	WLC- SP	-	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	• 85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Reel
CY8C6145A- ZI-S3F72	•	•	-   -	-	-	•	QFP	64	Cortex®-M4	150	_	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	_	512	256	-	• 85	3.6	-40	1.7	1	2	_	12	2	_	6	-	•	8	Dual host and device	Tray
CY8C6136B- ZI-F34	•	•	-   -	-	-	•	BGA	104	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	• 85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray
CY8C6137B- ZI-F14	•	•	-   -	-	-	•	BGA	104	Cortex®-M4	150	_	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	_	32	32	_	9	-	•	16	Dual host and device	Tray
CY8C6137B- ZI-F34	•	•	-   -	-	-	•	BGA	104	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray
PSoC™ 62 Seri	ies																																
CY8C6247F- DI-D32T	•	•	-   -	-	-	•	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	Dual host and device	Reel
CY8C6247F- DI-D52T	•	•	-   -	-	-	•	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	Dual host and device	Reel
CY8C6248B- ZI-S2D44	•	•	-   -	-	-	•	BGA	100	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	1024	512	2	• 85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C624AB- ZI-S2D14	•	•	-[-	-	-	•	BGA	100	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	_	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C624AB- ZI-S2D04	•	•	-   -	-	-	-	BGA	100	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	_	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C6248A- ZI-S2D14	•	•	-   -	-	-	•	QFP	27	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	_	1024	512	2	• 85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C6248A- ZI-S2D44	•	•	-   -	-	-	•	QFP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	_	1024	512	2	• 85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray

Product type/partnumber	ı	sumer	BLE Maximum Data Kate [MDps] BI F Power Outbut [dBm]	RX Sen	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	12S	Max. Operating temp. [°C]	Мах. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	.≅ ″. □.	PDM-PCM	O/1 trems	FS-USB	Package carrier
PSoC™ 62 Seri	ies								l																							
CY8C624AA- ZI-S2D14	•	•	-   -	-	-	•	QFP	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	_	2048	1024	2	85	3.6	-40	1.7	-	2	-	32	4	-	-	2	1	Dual host and device	Tray
CY8C6245A- ZI-S3D12	•	•	-   -	-	-	•	QFP	64	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	-	512	256		85	3.6	-40	1.7	-	2	-	12	2	-	6	- -	- 8	Dual host and device	Tray
CY8C6245L- QI-S3D62	•	•	-   -	-	-	-	QFN	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	-	512	256		85	3.6	-40	1.7	1	2	-	12	2	12	6		. 8	Dual host and device	Tray
CY8C6245A- ZI-S3D42	•	•	-   -	_	-	•	QFP	64	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256		85	3.6	-40	1.7	-	2	-	12	2	-	6	- -	- 8	Dual host and device	Tray
CY8C6245L- QI-S3D12	•	•	-   -	_	-	•	QFN	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	-	512	256	- •	85	3.6	-40	1.7	-	2	-	12	2	-	6	- •	. 8	Dual host and device	Tray
CY8C6245A- ZI-S3D62	•	•	-   -	_	-	-	QFP	64	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	-	512	256		85	3.6	-40	1.7	1	2	-	12	2	-	6		- 8	Dual host and device	Tray
CY8C6245L- QI-S3D72	•	•	-   -	_	-	•	QFN	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256	- •	85	3.6	-40	1.7	1	2	-	12	2	-	6	- 4	. 8	Dual host and device	Tray
CY8C6247B- ZI-AUD54	•	•	-   -	_	-	•	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	1	Dual host and device	Tray
CY8C6246B- ZI-D04	•	•	-   -	_	-	-	BGA	104	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	- •	1	Dual host and device	Tray
CY8C6247B- ZI-D54T	•	•	-   -	_	-	•	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	1	Dual host and device	Reel
CY8C6247B- ZI-D44T	•	•	-   -	-	-	•	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	1	Dual host and device	Reel
CY8C6245A- ZI-S3D02	•	•	-   -	-	-	-	QFP	64	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	-	512	256	-	85	3.6	-40	1.7	-	2	-	12	2	-	6	2 -	- 8	Dual host and device	Tray
CY8C6245L- QI-S3D42	•	•	-  -	-	-	•	QFN	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256	- •	85	3.6	-40	1.7	-	2	-	12	2	-	6	- •	8	Dual host and device	Tray
CY8C6247B- ZI-D54	•	•	-   -	_	-	•	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	1	Dual host and device	Tray

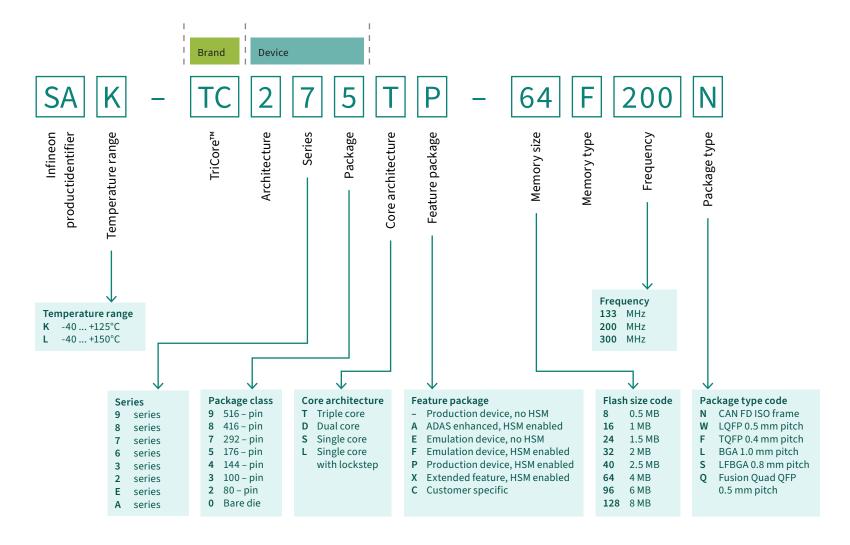
Product type/partnumber	Industrial	nsumer	BLE Maximum Data Rate [MDps]	RX Sen	BLE Supported Frequency band [GHz]		Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	1.5	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I <sup>2</sup> C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 62 Seri	ies												212/2 22/1			l								ı									
CY8C6245F- NI-S3D41T	•	•	-   -	-	-	•	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	_	512	256	-	• 85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Reel
CY8C6245F- NI-S3D11T	•	•	-   -	_	-	•	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	-	512	256	-	• 85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	16	Dual host and device	Reel
CY8C6245L- QI-S3D02	•	•	-   -	-	-	-	QFN	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	_	512	256	-	• 85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C624AB- ZI-S2D44	•	•	- -	-	-	•	BGA	100	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	4	-	12	2	•	16	Dual host and device	Tray
CY8C6247F- DI-D02T	•	•	- -	-	-	-	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	Dual host and device	Reel
CY8C6247B- ZI-D34	•	•	- -	-	-	•	BGA	104	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray
CY8C624AF- NI-S2D43T	•	•	-   -	-	-	•	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Reel
CY8C624AA- ZI-S2D44	•	•	-   -	-	-	•	QFP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	2048	1024	2	• 85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C6245A- ZI-S3D72	•	•	-   -	-	-	•	QFP	64	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256	-	• 85	3.6	-40	1.7	1	2	-	12	2	-	6	-	-	8	Dual host and device	Tray
CY8C6248F- NI-S2D43T	•	•	-   -	-	-	•	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	1024	512	2	• 85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Reel
CY8C6245F- NI-S3D71T	•	•	-   -	_	-	•	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	-	512	256	-	• 85	3.6	-40	1.7	1	2	-	12	2	12	6	-	•	8	Dual host and device	Reel
CY8C6247B- ZI-D44	•	•		_	-	•	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	Dual host and device	Tray
PSoC™ 63 Seri	ies																																
CY8C6347F- MI-BLD33T	•	•	2 +	4 -95	2.4	•	WLC- SP	72	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	• 85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Reel

Product type/partnumber		BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]		BLE Supported Frequency band [GHZ]	Capsense	Package	# GPIOs	Processor type	Мах. Operating frequency [МНz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	1-5 1-70 divota deivo	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (1 <sup>2</sup> C, UART, SPI)	PDM-PCM	- 15 page 9	FS-USB	Package carrier
PSoC™ 63 Seri	ies					\ <u>\</u>	VLC-						SAR (1, 12-bit	(1 12-bit @																		
MI-BLD13T	• (	2	+4 -	95 2	2.4	• '	SP	72	Cortex®-M4	150	Cortex®-M0	-	@ 1 msps)	200 ksps)	1024	288	1 (	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	1	6 –	Reel
CY8C6347F- MI-BLD53T	•	2	+4 -	95 2	.4		VLC- SP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	• 1	6 –	Reel
CY8C6347F- MI-BUD43T	•	2	+4 -	95 2	2.4		VLC- SP	69	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	• 1	6 Dual host and device	Reel
CY8C6347F- MI-BUD13T	•	2	+4 -	95 2	4		VLC- SP	69	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 (	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	• 1	6 Dual host and device	Reel
CY8C6347F- MI-BUD33T	•	2	+4 -	95 2	2.4		VLC- SP	69	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	1	6 Dual host and device	Reel
CY8C68237 FM-BLE	•	2	+4 -	95 2	2.4		VLC- SP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	5,5	-40	1.9	-	2	2	32	32	12	9	2	1	6 –	Tray
CY8C6347F- MI-BLD43T	•	2	+4 -	95 2	2.4		VLC- SP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	1	6 –	Reel
CY8C6336B- ZI-BLD14	•	2	+4 -	95 2	2.4	• [	BGA	84	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	1	6 Dual host and device	Tray
CY8C6347B- ZI-BLD34	•	2	+4 -	95 2	2.4	• E	BGA	84	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	1	6 Dual host and device	Tray
CY8C6316B- ZI-BLF54	•	2	+4 -	95 2	2.4	• E	BGA	84	Cortex®-M4	50	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	1	6 Dual host and device	Tray
CY8C6336B- ZI-BLF04	•	2	+4 -	95 2	2.4	- E	BGA	84	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	1	6 Dual host and device	Tray
CY8C6347B- ZI-BLD44	•	2	+4 -	95 2	2.4	• E	BGA	84	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	1	6 Dual host and device	Tray
CY8C6337B- ZI-BLF14	•	2	+4 -	95 2	2.4	• E	BGA	84	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	1	6 Dual host and device	Tray
CY8C6316B- ZI-BLF03	•	2	+4 -	95 2	2.4	- E	BGA	78	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	85	3.6	-40	1.7	-	2	-	32	32	-	9	- (	1	6 –	Tray

Product type/partnumber	Industrial	Consumer  BIE Maximum Data Bata [Mbg]	Maximum Data Power Output [	RX Sen	BLE Supported Frequency band [GHz]	CapSense	Package	#GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	12S LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (1 <sup>2</sup> C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 63 Seri	ies																																
CY8C6336B- ZI-BLF03	•	• 3	2 +4	-95	2.4	-	BGA	78	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1 •	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	-	Tray
CY8C6347B- ZI-BLD43	•	• 3	2 +4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 •	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Tray
CY8C6336B- ZI-BLD13	•	• 3	2 +4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1 •	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	-	Tray
CY8C6337B- ZI-BLF13	•	• 3	2 +4	-95	2.4	•	BGA	78	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 •	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Tray
CY8C6347B- ZI-BLD43T	•	• 2	2 +4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 •	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Reel
CY8C6347B- ZI-BLD53T	•	• 3	2 +4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 •	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Reel
CY8C6316B- ZI-BLF53	•	• 2	2 +4	-95	2.4	•	BGA	78	Cortex®-M4	50	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1 •	85	3.6	-40	1.7	_	2	2	32	32	12	9	-	•	16	-	Tray
CY8C6336L- QI-BLF42	•	• 2	2 +4	-95	2.4	•	QFN	41	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1 •	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Tray
CY8C6316B- ZI-BLF04	•	•	2 +4	-95	2.4	-	BGA	84	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1 •	85	3.6	-40	1.7	_	2	-	32	32	_	9	2	•	16	Dual host and device	Tray
CY8C6336L- QI-BLF02	•	• 2	2 +4	-95	2.4	-	QFN	41	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1 •	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Tray
CY8C6347F- MI-BUD53T	•	• 3	2 +4	-95	2.4	•	WLC- SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 •	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	-	16	Dual host and device	Reel
CY8C6347B- ZI-BLD33	•	• :	2 +4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 •	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Tray
CY8C6347L- QI-BLD52	•	• :	2 +4	-95	2.4	•	QFN	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 •	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	_	Tray
CY8C6347B- ZI-BLD53	•	• :	2 +4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1 •	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Tray

Automotive, Off-Highway vehicles, and Safety Required Applications



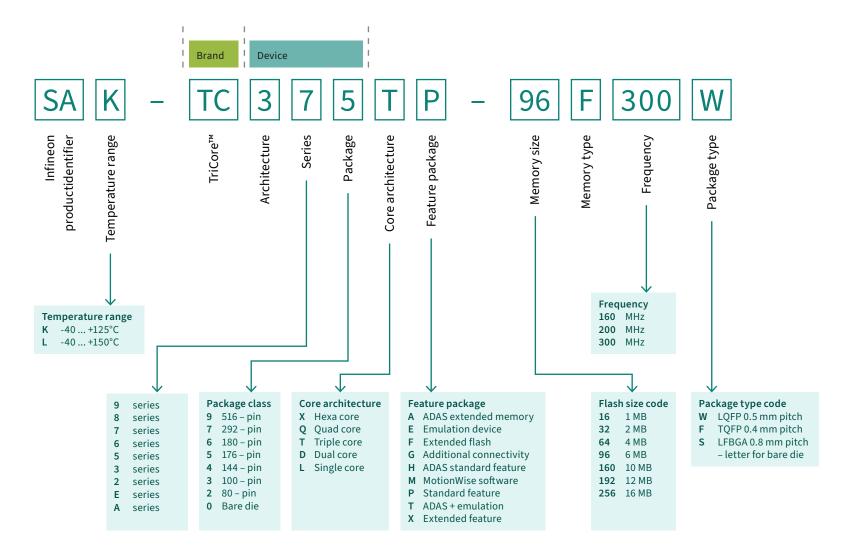


	Ma ket		Package	:	Tri Core		Prog flash	ram	Data fl	ash	SRAI	M DI	MA /	ADC		Timer-	ЭТМ		Timer	Inte	rfaces											Safe- ty	Se- curity	Pow	er
Producttype	Automotive	Industrial Consumer	Temperature T <sub>A</sub> [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles Data retention	Total (DMI, PMI) [KB]	·	Channels	Modules 12-bit (SAR) / 16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	Al OM - Complex 24-bit PWM cit.  DTM - 2x4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)(DIS 2014)	CAN-FD (nodes/obj)(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I <sup>2</sup> C) Single Edge Nibble Transmission (SENT)	eral Sensor Interface (PSIE	d Commur	Micro Second Channel (MSC)	External bus interface e.g. ext. memory FFT accelerator engine	"Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)"	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
AURIX™ TC2x – family								20		10					04/10													2 4:00							
SAK-TC299TX-128F300	•	• -	125	IFBGA-516 (0.8 mm)	3/1	300	8 y	20 ears	768 12	5 k year	2776	5 1	28 1	11/10	84/10 diff	48/152	80 7	2 -	2/1	2/4	6/384	4	6	4	2 15	5	1	3 diff IVDS	1 -	-	1	ASII-D	•	•	SRAM
SAK-TC299TY-128F300	•	• -	125	IFBGA-516 (0.8 mm)	3/1	300		20 ears	768 12	5 k 10 year	2776	5 1	28 1	11/10	84/10 diff	48/152	80 7	2 -	2/1	2/4	6/384	4	6	4	2 15	5 1	1	3 diff IVDS	1 -	-	1	ASII-D	-	•	SRAM
SAK-TC299TP-128F300	•	• - :	125, 150	lFBGA-516 (0.8 mm)	3/1	300	8 y	20 ears	768 12	5 k 10 year	728	1:	28 1	11/10	84/10 diff	48/152	80 7	2 -	2/1	2/4	6/384	4	6	4	2 15	5 1	1	3 diff IVDS	1 -	-	1	ASII-D	•	•	SRAM
SAK-TC298TP-128F300	•	• - :	125, 150	IFBGA-416 (1.0 mm)	3/1	300	8 v	20 ears	768 12	5 k 10 year	728	1:	28 1	11/10	62/10 diff	48/152	80 7	2 -	2/1	2/4	6/384	4	4	4	2 15	5	1	3 diff	1 -	-	1	ASII-D	•	•	SRAM
SAK-TC297TA-128F300	•	• -	125	IFBGA-292 (0.8 mm)	3/1	300	8	20	768 12	10	2776	5 1	28 1	11/10	60/6 diff	48/152	80 7	2 -	2/1	2/4	6/384	4	5	4	2 15	5 1	1	3 diff	- 1	1	1	ASII-D	•	•	SRAM
SAK-TC297TB-128F300	•	• -	125	IFBGA-292 (0.8 mm)	3/1	300	8	20	768 12	10	2776	5 1	28 1	11/10	60/6 diff	48/152	80 7	2 -	2/1	2/4	6/384	4	5	4	2 15	5	1	3 diff	- 1	1	1	ASII-D	-	•	SRAM
SAK-TC297TX-128F300	•	• -	125	IFBGA-292 (0.8 mm)	3/1	300	8	20	768 12	10	2776	5 1	28 1	11/10	60/6 diff	48/152	80 7	2 -	2/1	2/4	6/384	4	5	4	2 15	5 1	1 1	3 diff		_	1	ASII-D	•	•	SRAM
SAK-TC297TY-128F300		• -	125	IFBGA-292 (0.8 mm)	3/1	300	8	20	768 12	5 k 10	2776	5 1:	28 1	11/10	60/6 diff	48/152	80 7	2 -	2/1	2/4	6/384	4	5	4	2 15	5 1	1	3 diff		_	1	ASII-D	_		SRAM
SAK-TC297TP-128F300		•   -	125, 150	IFBGA-292 (0.8 mm)	3/1	300	8	ears 20	768 12	year 5 k	728	1:	28 1	11/10	60/6	48/152	80 7	2 -	2/1	2/4	6/384	4	5	4	2 15	5 1	1 1	3 diff		_	1	ASII-D	•		SRAM
SAK-TC297T-128F300				IFBGA-292 (0.8 mm)			У	20	768 12	10	728			11/10	diff 60/6 diff	48/152			2/1		6/384	4	5		2 15			IVDS 3 diff		_	1	ASII-D			SRAM
							У	ears		year	5										•							lVDS 2 diff					_		
SAK-TC277TP-64F200	•	-   -	125, 150	IFBGA-292 (0.8 mm)	3/2	200	4 у	ears	384 12	year			54	8/6	60/6 diff 60/6	32/88			2/1	1/2	4/256	4	4	4	1 10	3 ]	1	IVDS 2 diff	-   -	_	1	ASII-D	•	•	SRAM
SAK-TC277T-64F200	•	•   -	125, 150	IFBGA-292 (0.8 mm)	3/2	200	4 у	ears	384 12	year	472	6	54	8/6	diff	32/88	48 4	0 -	2/1	1/2	4/256	4	4	4	1 10	3 1	1	IVDS	-   -	-	1	ASII-D	-	•	SRAM
SAK-TC275TP-64F200	•	• -	125, 150	IQFP-176 (0.5 mm)	3/2	200		20 ears	384 12	5 k 10 year	472	6	64	8/6	48/6 diff	32/88	48 4	0 -	2/1	1/2	4/256	4	4	4	1 10	3 1	1	2 diff IVDS	-   -	-	1	ASII-D	•	•	SRAM

	Mai ket		Package	:	Tri Cor	етм	Prog flasi		Data	flash		SRAM	DMA	ADC		Timer-	·GTM		Timer	Inte	erfaces												Safe- ty	Se- curity		ower
Producttype	Automotive	Industrial Consumer	Temperature T $_{A}$ [ $^{\circ}$ C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR) / 16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch. DTM – 2x 4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)(DIS 2014)	CAN-FD (nodes/obj)(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I <sup>2</sup> C)	Single Edge Nibble Transmission (SENT) Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	(HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory FFT accelerator engine	"Camera (incl. pixel preprocessing),	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
AURIX™ TC2x – family	,														/-														uss							
SAK-TC275T-64F200	•	• -	125, 150	IQFP-176 (0.5 mm)	3/2	200	4	20 years	384 1	L25 k	10 years	472	64	8/6	48/6 diff	32/88	48	40 -	2/1	1/2	4/256	4	4	4	1 1	.0 3	1		diff VDS	-   -	-	1	ASII-D	-	•	SRAM
SAK-TC267D-40F200	•	• -	125, 150	IFBGA-292 (0.8 mm)	2/1	200	2.5	20 years	96 1	L25 k	10 years	240	48	4/3	56/3 diff	24/ 64	32	32 -	2/1	1/2	5/256	No	4	4	1	6 2	1		diff VDS	-   -	-	1	ASII-D	-	•	Yes
SAK-TC265D-40F200	•	• -	125, 150	IQFP-176 (0.5 mm)	2/1	200	2.5	20 years	96 1	L25 k	10 years	240	48	4/3	50/3 diff	24/ 64	32	32 -	2/1	1/2	5/256	4	4	4	1	6 2	1		diff VDS	-   -	-	1	ASII-D	-	•	Yes
SAK-TC264DA-40F200	•	• -	125	IQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96 1	L25 k	10 years	752	48	4/3	40/3 diff	24/64	32	32 -	2/1	1/2	5/256	4	4	4	1	6 2	1		diff VDS	- 1	1	1	ASII-D	-	•	Yes
SAK-TC264D-40F200	•	• -	125, 150	lQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96 1	L25 k	10 years	240	48	4/3	40/3 diff	24/64	32	32 -	2/1	1/2	5/256	4	4	4	1	6 2	1		diff VDS	-   -	-	1	ASII-D	-	•	Yes
SAK-TC234LA-32F200	•	• -	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128 1	L25 k	10 years	704	16	4/-	24/-	8/32	32	- 2	2/1	1/2	6/256	No	4	2	-	4 -	-	-	-	- 1	-	1	ASII-D	•	•	WUT + SRAM
SAK-TC234LX-32F200	•	• -	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128 1	L25 k	10 years	704	16	2/-	24/-	8/32	32	- 2	2/1	1/2	6/256	No	4	2		4 -	-	-	-	-   -	-	1	ASII-D	•	•	WUT + SRAM
SAK-TC237LP-32F200	•	• -	125, 150	IFBGA-292 (0.8 mm)	1/1	200	2	20 years	128 1	L25 k	10 years	192	16	2/-	24/-	8/32	32	- 2	2/1	1/2	6/256	4	4	2	-	4 -	-	-	-	-   -	-	-	ASII-D	•	•	WUT + SRAM
SAK-TC234LP-32F200	•	• -	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128 1	L25 k	10 years	192	16	2/-	24/-	8/32	32	- 2	2/1	1/2	6/256	4	4	2		4 -	-	-	-		-	-	ASII-D	•	•	WUT + SRAM
SAK-TC234L-32F200	•	• -	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128 1	L25 k	10 years	192	16	2/-	24/-	8/32	32	- 2	2/1	1/2	6/256	4	4	2		4 –	-	-	-	-   -	-	-	ASII-D	-	•	WUT + SRAM
SAK-TC233L-32F200	•	• -	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128 1	L25 k	10 years	192	16	2/-	24/-	8/32	32	- 2	2/1	1/2	6/256	4	4	2		4 -	-	-	-	-   -	-	-	ASII-D	-	•	WUT + SRAM
SAK-TC233LP-32F200	•	• -	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128 1	L25 k	10 years	192	16	2/-	24/-	8/32	32	- 2	2/1	1/2	6/256	4	4	2	-	4 -	-	-	-	-   -	-	-	ASII-D	•	•	WUT + SRAM
SAK-TC224L-16F133	•	• -	125, 150	TQFP-144 (0.4 mm)	1/1	133	1	20 years	96 1	L25 k	10 years	96	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2		4 -	-	-	-		-	-	ASII-D	-	•	WUT + SRAM

	Mai ket		Package	:	Tri Cor		Prog flash		Data	flash		SRAM	DMA	ADC		Timer	-GTM		Timer	Inte	erfaces												Safe- ty	Se- curity		ower
Product type	Automotive	Industrial	Temperature T <sub>A</sub> [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR) / 16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch. DTM – 2x 4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)(DIS 2014)	CAN-FD (nodes/obj)(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I <sup>2</sup> C)	Single Edge Nibble Transmission (SENT) Peripheral Sensor Interface (PSIS)	PSI with Serial PHY Connection (PSI5S) High-Speed Communication Tunnel	(нѕст)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory FFT accelerator engine	"Camera (incl. pixel preprocessing),	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
AURIX™ TC2x – family																																				
SAK-TC224S-16F133	•	• -	125, 150	TQFP-144 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 2	4 –	-	-	-	-   -	-	-	ASII-B	-	•	WUT + SRAM
SAK-TC223L-16F133	•	• -	125, 150	TQFP-100 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 2	4 -	-	-	-	-   -	-	-	ASII-D	_	•	WUT + SRAM
SAK-TC223S-16F133	•	• -	125, 150	TQFP-100 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 -	-	-	-	-   -	-	-	ASII-B	-	•	WUT + SRAM
SAK-TC222L-16F133	•	• -	125, 150	TQFP-80 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 –	-	-	-	-   -	-	-	ASII-D	_	•	WUT + SRAM
SAK-TC222S-16F133	•	• -	125, 150	TQFP-80 (0.4 mm)	1/0	133	1 ,	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 -	-	-	-	-   -	-	-	ASII-B	-	•	WUT + SRAM
SAK-TC214L-8F133	•	• -	125, 150	TQFP-144 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 -	-	-	-	-   -	-	-	ASII-D	-	•	WUT + SRAM
SAK-TC214S-8F133	•	• -	125, 150	TQFP-144 (0.4 mm)	1/0	133	0.5	20	64	125 k	10 years	56	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 -	-	-	-		-	-	ASII-B	-	•	WUT + SRAM
SAK-TC213L-8F133	•	• -	125, 150	TQFP-100 (0.4 mm)	1/1	133	0.5	20	64	125 k	10 years	56	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 –	-	-	-	-   -	-	-	ASII-D	-	•	WUT + SRAM
SAK-TC213S-8F133	•	• -	125, 150	TQFP-100 (0.4 mm)	1/0	133	0.5	20	64	125 k	10 years	56	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 -	-	-	-	-   -	-	-	ASII-B	-	•	WUT + SRAM
SAK-TC212L-8F133	•	-	125, 150	TQFP-80 (0.4 mm)	1/1	133	0.5	20	64	125 k	10 years	56	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 -	-	-	-	-   -	-	-	ASII-D	-	•	WUT + SRAM
SAK-TC212S-8F133	•	• -	125, 150	TQFP-80 (0.4 mm)	1/0	133	0.5	20	64	125 k	10 years	56	16	2/-	24/-	8/32	32	- 2	2/1	-	3/128	3	4	2	_ 4	4 -	-	-	-		-	-	ASII-B	-	•	WUT + SRAM

ASC = Asynchronous Serial Channel EVR = Embedded Voltage Regulator MSC = Micro Second Channel SENT = Single Edge Nibble Transmission Ambient temperature range: K = -40 ... 125°C, L = -40 ... 150°C



	Ma	rket	:S	Packa	ge	Tri Cor	'e™	Prog flast		Data fl	ash		SRAM	DMA	Timer	Inte	rfaces													Safety	Serurity	Power	
Product type	Automotive	Industrial	Consumer	Temperature T <sub>A</sub> [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (OSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I <sup>2</sup> C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSIS)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	"Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)"	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	"Embedded Voltage Regulator (EVR) (5 V/3.3 V)"	Standby control unit Standby control unit
AURIX™ TC3x – family																																	
TC397XA-256F300S	•	•	-	125	(0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	6912	128	•/•/•	4	12	6	12	2	17	4	•	2	1	-	2	-	1/1	ASII-D	Full eVita	•	● (8 bit)
TC399XX-256F300S	•	•	-	125- 150	lFBGA-516 (0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	6912	128	•/•/•	4	12	6	12	2	25	4	•	2	4	•	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC399XP-256F300S	•	•	-	125- 150	lFBGA-516 (0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	2816	128	•/•/•	4	12	6	12	2	25	4	•	2	4	•	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC397XX-256F300S	•	•	-	125- 150	(0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	6912	128	•/•/•	4	12	6	12	2	20	4	•	2	2	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC397XP-256F300S	•	•	-	125- 150	(0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	2816	128	•/•/•	4	12	6	12	2	20	4	•	2	2	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC397QA-160F300S	•	•	-	125	lFBGA-292 (0.8 mm)	4/4	300	16	20 years	1024	125 k	10 years	6368	128	•/•/•	4	12	6	12	2	20	4	•	2	1	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC397XM-256F300S	•	•	-	125	(0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	2816	128	•/•/•	4	12	6	12	2	20	4	•	2	2	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC389QP-160F300S	•	•	-	125- 150	lFBGA-516 (0.8 mm)	4/2	300	10	20 years	512	125 k	10 years	1568	128	•/•/•	4	12	5	24	2	25	4	•	1	3	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC387QP-160F300S	•	•	-	125- 150	lFBGA-292 (0.8 mm)	4/2	300	10	20 years	512	125 k	10 years	1568	128	•/•/•	4	12	5	24	2	20	4	•	1	2	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC3E7QG-160F300S	•	•	-	125	lFBGA-292 (0.8 mm)	4/2	300	10	20 years	512	125 k	10 years	1696	128	•/•/•	4	20	5	24	2	20	4	•	1	2	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC3E7QF-192F300S	•	•	-	125- 150	lFBGA-292 (0.8 mm)	4/2	300	12	20 years	512	125 k	10 years	1696	128	•/•/•	4	16	5	24	2	20	4	•	1	2	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC3E7QX-192F300S	•	•	-	125- 150	lFBGA-292 (0.8 mm)	4/2	300	12	20 years	512	125 k	10 years	1696	128	•/•/•	4	20	5	24	2	20	4	•	1	2	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC377TX-96F300S	•	•	-	125	IFBGA-292 (0.8 mm)	3/3	300	6	20 years	256	125 k	10 years	4208	128	•/•/•	2	12	5	12	1	15	2	•	1	2	-	-	1	2/2	ASII-D	Full eVita	•	• (8 bit)

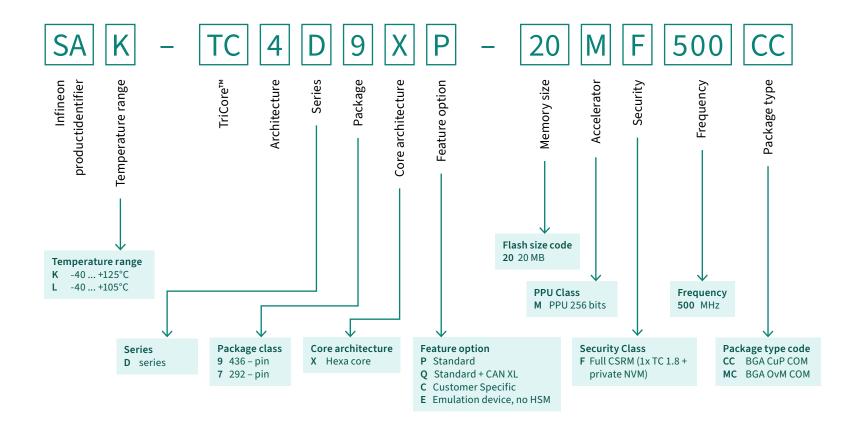
	Ма	arket	s	Packa	ge	Tri Core	e™	Prog flash	gram 1	Data fl	ash		SRAM	DMA	Timer	Inter	faces													Safety	Serurity	Power	
Product type	Automotive	Industrial	Consumer	Temperature T <sub>A</sub> [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I <sup>2</sup> C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	"Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)"	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	"Embedded Voltage Regulator (EVR) (5 V/3.3 V)"	Standby control unit Standby control unit
AURIX™ TC3x – family																																	
TC377TP-96F300S	•	•	-	125- 150	(0.8 mm)	3/2	300	6	20 years	256	125 k	10 years	1136	128	•/•/•	2	8	5	12	1	15	2	•	1	2	-	-	-	1/1	ASII-D	Full eVita	•	● (8 bit)
TC375TP-96F300W	•	•	-	125- 150	lQFP-176 ( 0.5 mm)	3/2	300	6	20 years	256	125 k	10 years	1136	128	•/•/•	2	8	5	12	1	15	2	•	1	2	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC367DP-64F300S	•	•	-	125- 150	(0.8 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC364DP-64F300W	•	•	-	125- 150	lQFP-176 ( 0.5 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC364DP-64F300F	•	•	-	125- 150	TQFP-144 (0.4 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC366DP-64F300S	•	•	-	125- 150	BGA-180 (0.8 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC365DP-64F300W	•	•	-	125- 150	lQFP-176 ( 0.5 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC357TA-64F300S	•	•	-	125	lFBGA-292 (0.8 mm)	3/2	300	4	20 years	128	125 k	10 years	3664	64	•/•/•	2	8	4	4	1	-	-	-	-	-	-	2	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC357TH-64F300S	•	•	-	125	(0.8 mm)	3/2	300	4	20 years	128	125 k	10 years	3152	64	•/•/•	2	8	4	4	1	-	-	-	-	-	-	2	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC356TH-64F300S	•	•	-	125	BGA-180 (0.8 mm)	3/2	300	4	20 years	128	125 k	10 years	3152	64	•/•/•	2	8	4	4	1	-	-	-	-	-	-	2	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC356TA-64F300S	•	•	-	125	BGA-180 (0.8 mm)	3/2	300	4	20 years	128	125 k	10 years	3664	64	•/•/•	2	8	4	4	1	-	-	-	-	-	-	2	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC337DA-32F200S	•	•	-	125	lFBGA-292 (0.8 mm)	2/1	200	2	20 years	128	125 k	10 years	1576	16	•/•/•	2	4	4	6	-	6	-	-	-	-	-	1	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC337LP-32F200S	•	•	-	125- 150	lFBGA-292 (0.8 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	● (8 bit)

	M	arke	ets	Pac	ckage	e	Tri Cor	re™	Pro	gram h	Data fl	ash		SRAM	DMA	Timer	Inte	rfaces													Safety	Serurity	Power	
Product type	Automotive	Industrial	Consumer	[]o] TouriteranmeT	iemperature i <sub>A</sub> l CJ	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I <sup>2</sup> C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PS15)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	"Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)"	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	"Embedded Voltage Regulator (EVR) (5 V/3.3 V)"	Standby control unit Standby control unit
AURIX™ TC3x – family																																		
TC334LP-32F200F	•	•	-	12 15		TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	● (8 bit)
TC333LP-32F200F	•	•	-	12 15		TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	6	4	5	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC337LP-32F300S	•	•	-	12 15		lFBGA-292 (0.8 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC337DA-32F300S	•	•	-	12	25	lFBGA-292 (0.8 mm)	2/1	300	2	20 years	128	125 k	10 years	1576	16	•/•/•	2	4	4	6	-	6	-	-	-	-	-	1	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC336LP-32F300S	•	•	-	12 15		BGA-180 (0.8 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC336LP-32F200S	•	•	-	12 15		BGA-180 (0.8 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC336DA-32F300S	•	•	-	12	25	BGA-180 (0.8 mm)	2/1	300	2	20 years	128	125 k	10 years	1576	16	•/•/•	2	4	4	5	-	6	-	-	-	-	-	1	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC336DA-32F200S	•	•	-	12	25	BGA-180 (0.8 mm)	2/1	200	2	20 years	128	125 k	10 years	1576	16	•/•/•	2	4	4	5	-	6	-	-	-	-	-	1	-	1/1	ASII-D	Full eVita	•	• (8 bit)
TC334LP-32F300F	•	•	-	12 15		TQFP-144 (0.4 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC333LP-32F300F	•	•	-	12 15		TQFP-100 (0.4 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	6	4	5	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC332LP-32F300F	•	•	-	12 15		TQFP-80 (0.4 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	6	4	5	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC332LP-32F200F	•	•	-	12 15		TQFP-80 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	6	4	5	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC327LP-16F160S	•	•	-	12 15		lFBGA-292 (0.8 mm)	1/1	160	1	20 years	96	125 k	10 years	152	16	•/•/•	2	8	4	4	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)

	М	arkets	١	Packag	je	Tri Cor	e™	Prog flash		Data fl	ash		SRAM	DMA	Timer	Inte	rfaces													Safety	Serurity	Power	
Producttype	Automotive	Industrial	Consumer	Temperature T <sub>A</sub> [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (OSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I <sup>2</sup> C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	(HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	"Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)"	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	"Embedded Voltage Regulator (EVR) (5 V/3.3 V)"	Standby control unit Standby control unit
AURIX™ TC3x – family																																	
TC324LP-16F160F	•	•	-	125- 150	TQFP-144 (0.4 mm)	1/1	160	1	20 years	96	125 k	10 years	152	16	•/•/•	2	8	4	4	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	● (8 bit)
TC323LP-16F160F	•	•	-	125- 150	TQFP-100 (0.4 mm)	1/1	160	1	20 years	96	125 k	10 years	152	16	•/•/•	2	6	4	4	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)
TC322LP-16F160F	•	•	-	125- 150	TQFP-80 (0.4 mm)	1/1	160	1	20 years	96	125 k	10 years	152	16	•/•/•	2	6	4	4	-	6	-	-	-	-	-	-	-	-/-	ASII-D	Full eVita	•	• (8 bit)

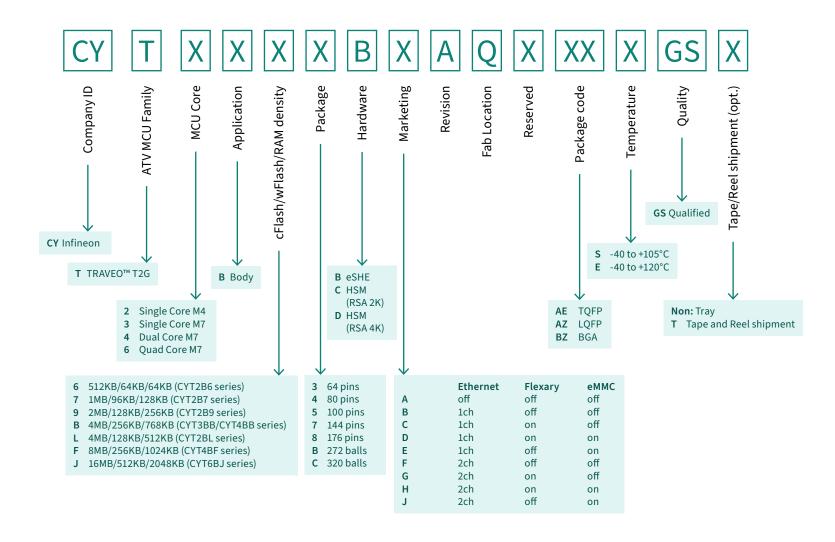
ASC = Asynchronous Serial Channel EVR = Embedded Voltage Regulator MSC = Micro Second Channel
SENT = Single Edge Nibble Transmission

Ambient temperature range: **K** = -40 ... 125°C, L = -40 ... 150°C



	Marke	ets	Packag	ge	Tri Core	₽™	Prog flash	gram 1	Data fl	ash		SRAM	DMA	Timer	Inte	rfaces													Safety	Serurity	Power	
Producttype	Automotive Industrial	Consumer	Temperature T <sub>A</sub> [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD Queued Synchronous Peripheral Interface		(ASCLIN) Inter-Integrated Circuit Bus Interface (I <sup>2</sup> C)	Single Edge Nibble Transmission (SENT)		ე 	ed Communication Tunn	(HSCI) Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	"Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)"	rnet MAC 100	Gigabit Ethernet	SIL level	Hardware Security Module (HSM)	"Embedded Voltage Regulator (EVR) (5 V/3.3 V)"	Standby control unit Standby control unit
AURIX™ TC4x – family																																
TC4D9XP-20MF500	• •	-	125	BGA-436 (0.8 mm)	6/6	500	20	20 years	1024	250k	10 years	10016	128	eGTM/no/no	4	20 8	2	8 3	30	2	Ye	s 2	1	Yes	-	-	4	2 (5 Gbit)	ASII-D	ISO-21434	Yes	Yes (8 bit)

#### TRAVEO™ T2G Body decoder



					Core			System					Debug			Me- mory			Ana- log	Tir	ner	C	omm	unica	tion					Ex. Inter- rupt	Safety	Security
Ordering part number*	Package	Pin count	GPIO	Smart 10	Main Core type/ Crypto Core type	-CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F D (Dual core with FPU) -CM7F_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC Hardware Watchdog	RTC channel	lemperature sensor Debug Interface	Supply voltage[V]	Operating temperature range TA["C]	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	SCB channel	LIN channel	CAN FD channel CXPI channel	I2S channel	Ethernet channel	Ethernet speed	FlexRay channel	SMIF (SPI/HyperBus)	External Interrupt channel	SIL level	Flash Security eSHE/HSM
TRAVEO™ T2G CYT2B6 S	eries																															
CYT2B63BADQ0AZSGS	64- LQFP	64	49	9 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	• SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 105	576	64	64	22	2	46	4 6	5	3 0	NA	0	NA	0 0	NA	49	ASIL-B	• eSHE
CYT2B63BADQ0AZEGS	64- LQFP	64	49	9 (3port)	ARM_	_CM4F/CM0+	80	Single precision	•	54/26/2	• •	1	• SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	576	64	64	22	2	46	4 6	5	3 0	NA	0	NA	0 0	NA	49	ASIL-B	• eSHE
CYT2B63CADQ0AZSGS	64- LQFP	64	49	9 (3port)	ARM_	_CM4F/CM0+	80	Single precision	•	54/26/2	•	1	SWD/JTA	G/ 2.7 to 5.5	-40 to 105	576	64	64	22	2	46	4 6	5	3 0	NA	0	NA	0 0	NA	49	ASIL-B	• HSM
CYT2B63CADQ0AZEGS	64- LQFP	64	49	9 (3port)	ARM_	_CM4F/CM0+	80	Single precision	•	54/26/2	•	1	SWD/JTA	G/ 2.7 to 5.5	-40 to 125	576	64	64	22	2	46	4 6	5	3 0	NA	0	NA	0 0	NA	49	ASIL-B	• HSM
CYT2B64BADQ0AZSGS	80- LQFP	80	63	14 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	SWD/JTA	G/ 2.7 to 5.5	-40 to 105	576	64	64	28	2	46	4 6	5	4 0	NA	0	NA	0 0	NA	63	ASIL-B	• eSHE
CYT2B64BADQ0AZEGS	80- LQFP	80	63	14 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	576	64	64	28	2	46	4 6	5	4 0	NA	0	NA	0 0	NA	63	ASIL-B	• eSHE
CYT2B64CADQ0AZSGS	80- LQFP	80	63	14 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	SWD/JTA	G/ 2.7 to 5.5	-40 to 105	576	64	64	28	2	46	4 6	5	4 0	NA	0	NA	0 0	NA	63	ASIL-B	• HSM
CYT2B64CADQ0AZEGS	80- LQFP	80	63	14 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	576	64	64	28	2	46	4 6	5	4 0	NA	0	NA	0 0	NA	63	ASIL-B	• HSM
CYT2B65BADQ0AZSGS	100- LQFP	100	78	16 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	SWD/JTA	G/ 2.7 to 5.5	-40 to 105	576	64	64	32	2	46	4 6	5	4 0	NA	0	NA	0 0	NA	78	ASIL-B	• eSHE
CYT2B65BADQ0AZEGS	100- LQFP	100	78	16 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	576	64	64	32	2	46	4 6	5	4 0	NA	0	NA	0 0	NA	78	ASIL-B	• eSHE
CYT2B65CADQ0AZSGS	100- LQFP	100	78	16 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	SWD/JTA	G/ 2.7 to 5.5	-40 to 105	576	64	64	32	2	46	4 6	5	4 0	NA	0	NA	0 0	NA	78	ASIL-B	• HSM
CYT2B65CADQ0AZEGS	100- LQFP	100	78	16 (3port)	ARM_	_CM4F/CM0+	80	Single precision	• •	54/26/2	• •	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	576	64	64	32	2	46	4 6	5	4 0	NA	0	NA	0 0	NA	78	ASIL-B	• HSM
TRAVEO™ T2G CYT2B7 S	Series																															
CYT2B73BADQ0AZSGS	64- LQFP	64	49	9 (3port)	ARM_	_CM4F/CM0+	160	Single precision	•	89/33/4	• •	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 105	1088	96	128	27	4	63 1	1 7	6	5 0	NA	0	NA	0 0	NA	49	ASIL-B	• eSHE

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

					Core			System					Debug			Me- mory			Ana- log	Tim	er	Coi	nmı	unicat	ion					Ex. Inter- rupt	Safety	Secu	urity
Ordering part number*	Package	Pin count	GPIO	Smart 10	Main Core type/ Crypto Core type	-CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU) -CM7F_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMAO/P-DMA1/M-DMA0)	RC-OSC Hardware Watchdog	RTC channel	Debug Interface	Supply voltage[V]	Operating temperature range TA(°C)	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM 16bit TCPWM (Motor control)		LIN channel	CXPI channel	12S channel	Ethernet channel	Ethernet speed	FlexRay channel	SMIF (SPI/HyperBus)	External Interrupt channel	SIL level	Flash Security	eSHE/HSM
TRAVEO™ T2G CYT2B7	Series																																
CYT2B73BADQ0AZEGS	64- LQFP	64	49	9 (3port)	ARM	_CM4F/CM0+	160	Single precision	• •	89/33/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	1088	96	128	27	4 6	53 11	. 7	6	5 0	NA	0	NA	0 0	NA	49	ASIL-B	• e	SHE
CYT2B73CADQ0AZSGS	64- LQFP	64	49	9 (3port)	ARM	_CM4F/CM0+	160	Single precision	• •	89/33/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	1088	96	128	27	4 6	53 11	7	6	5 0	NA	0	NA	0 0	NA	49	ASIL-B	• F	1SM
CYT2B73CADQ0AZEGS	64- LQFP	64	49	9 (3port)	ARM	_CM4F/CM0+	160	Single precision	• •	89/33/4	• •	1 •	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	1088	96	128	27	4 (	53 11	. 7	6	5 0	NA	0	NA	0 0	NA	49	ASIL-B	• F	ISM
CYT2B74BADQ0AZSGS	80- LQFP	80	63	14 (3port)	ARM	_CM4F/CM0+	160	Single precision	• •	89/33/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	1088	96	128	34	4 6	53 12	8	7	6 0	NA	0	NA	0 0	NA	63	ASIL-B	• e	SHE
CYT2B74BADQ0AZEGS	80- LQFP	80	63	14 (3port)	ARM	_CM4F/CM0+	160	Single precision	• •	89/33/4	• •	1 •	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	1088	96	128	34	4	53 12	8	7	6 0	NA	0	NA	0 0	NA	63	ASIL-B	• e	SHE
CYT2B74CADQ0AZSGS	80- LQFP	80	63	14 (3port)	ARM	_CM4F/CM0+	160	Single precision	•	89/33/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	1088	96	128	34	4	53 12	8	7	6 0	NA	0	NA	0 0	NA	63	ASIL-B	• +	1SM
CYT2B74CADQ0AZEGS	80- LQFP	80	63	14 (3port)	ARM	_CM4F/CM0+	160	Single precision	• •	89/33/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	1088	96	128	34	4 6	53 12	8	7	6 0	NA	0	NA	0 0	NA	63	ASIL-B	• F	HSM
CYT2B75BADQ0AZSGS	100- LQFP	100	78	20 (4port)	ARM	_CM4F/CM0+	160	Single precision	•	89/33/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	1088	96	128	39	4 6	53 12	8	7	6 0	NA	0	NA	0 0	NA	78	ASIL-B	• e	SHE
CYT2B75BADQ0AZEGS	100- LQFP	100	78	20 (4port)	ARM.	_CM4F/CM0+	160	Single precision	•	89/33/4	• •	1	SWD/JTAG, Trace	2.7 to 5.5	-40 to 125	1088	96	128	39	4	53 12	8	7	6 0	NA	0	NA	0 0	NA	78	ASIL-B	• e	SHE
CYT2B75CADQ0AZSGS	100- LQFP	100	78	20 (4port)	ARM.	_CM4F/CM0+	160	Single precision	•	89/33/4	• •	1	SWD/JTAG, Trace	2.7 to 5.5	-40 to 105	1088	96	128	39	4	53 12	8	7	6 0	NA	0	NA	0 0	NA	78	ASIL-B	• +	1SM
CYT2B75CADQ0AZEGS	100- LQFP	100	78	20 (4port)	ARM.	_CM4F/CM0+	160	Single precision	•	89/33/4	• •	1	SWD/JTAG, Trace	2.7 to 5.5	-40 to 125	1088	96	128	39	4	53 12	8	7	6 0	NA	0	NA	0 0	NA	78	ASIL-B	• +	HSM
CYT2B77BADQ0AZSGS	144- LQFP	144	122	29 (5port)	ARM	_CM4F/CM0+	160	Single precision	• •	89/33/4	• •	1	SWD/JTAG, Trace	2.7 to 5.5	-40 to 105	1088	96	128	54	4	53 12	8	8	6 0	NA	0	NA	0 0	NA	122	ASIL-B	• e	SHE
CYT2B77BADQ0AZEGS	144- LQFP	144	122	29 (5port)	ARM	_CM4F/CM0+	160	Single precision	•	89/33/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	1088	96	128	54	4 6	53 12	8	8	6 0	NA	0	NA	0 0	NA	122	ASIL-B	• e	SHE
CYT2B77CADQ0AZSGS	144- LQFP	144	122	29 (5port)	ARM	_CM4F/CM0+	160	Single precision	• •	89/33/4	• •	1	SWD/JTAG, Trace	2.7 to 5.5	-40 to 105	1088	96	128	54	4 6	53 12	8	8	6 0	NA	0	NA	0 0	NA	122	ASIL-B	• F	1SM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

					Core			System					De	bug			Me- mory			Ana- log	Time	er (	Comr	nunica	tion					Ex. Inter- rupt	Safety	Security
Ordering part number*	Package	Pin count	GPIO	Smart IO	Main Core type/ Crypto Core type	-CMAF (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU) -CM7F_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMAO/P-DMA1/M-DMA0)	RC-OSC	RTC channel	Temperature sensor	Debug Interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM (Motor control)	SCB channel LIN channel	CAN FD channel	12S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel SMIF (SPI/HyperBus)	External Interrupt channel	SIL level	Flash Security eSHE/HSM
TRAVEO™ T2G CYT2B7	Series																															
CYT2B77CADQ0AZEGS	144- LQFP	144	122	29 (5port)	ARM_C	CM4F/CM0+	160	Single precision	• •	89/33/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 125	1088	96	128	54	4 6	3 12	8 8	6 0	NA	0	NA	0	0 NA	122	ASIL-B	• HSM
CYT2B78BADQ0AZSGS	176- LQFP	176	152	36 (5port)	ARM_C	CM4F/CM0+	160	Single precision	• •	89/33/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 105	1088	96	128	64	4 6	3 12	8 8	6 0	NA	0	NA	0	0 NA	152	ASIL-B	• eSHE
CYT2B78BADQ0AZEGS	176- LQFP	176	152	36 (5port)	ARM_C	CM4F/CM0+	160	Single precision	• •	89/33/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 125	1088	96	128	64	4 6	3 12	8 8	6 0	NA	0	NA	0	0 NA	152	ASIL-B	• eSHE
CYT2B78CADQ0AZSGS	176- LQFP	176	152	36 (5port)	ARM_C	CM4F/CM0+	160	Single precision	• •	89/33/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 105	1088	96	128	64	4 6	3 12	8 8	6 0	NA	0	NA	0	0 NA	152	ASIL-B	• HSM
CYT2B78CADQ0AZEGS	176- LQFP	176	152	36 (5port)	ARM_C	CM4F/CM0+	160	Single precision	• •	89/33/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 125	1088	96	128	64	4 6	3 12	8 8	6 0	NA	0	NA	0	0 NA	152	ASIL-B	• HSM
TRAVEO™ T2G CYT2B9	eries																															
CYT2B93BACQ0AZSGS	64- LQFP	64	49	9 (3port)	ARM_C	CM4F/CM0+	160	Single precision	• •	92/44/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	27	8 6	3 11	7 7	5 2	NA	0	NA	0	0 NA	49	ASIL-B	• eSHE
CYT2B93BACQ0AZEGS	64- LQFP	64	49	9 (3port)	ARM_C	CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	• SW	D/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	27	8 63	3 11	7 7	5 2	NA	0	NA	0	0 NA	49	ASIL-B	• eSHE
CYT2B93CACQ0AZSGS	64- LQFP	64	49	9 (3port)	ARM_C	CM4F/CM0+	160	Single precision	• •	92/44/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	27	8 63	3 11	7 7	5 2	NA	0	NA	0	0 NA	49	ASIL-B	• HSM
CYT2B93CACQ0AZEGS	64- LQFP	64	49	9 (3port)	ARM_C	CM4F/CM0+	160	Single precision	• •	92/44/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	27	8 6	3 11	7 7	5 2	NA	0	NA	0	0 NA	49	ASIL-B	• HSM
CYT2B94BACQ0AZSGS	80- LQFP	80	63	14 (3port)	ARM_C	CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	• SW	D/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	34	8 6	3 12	8 9	7 3	NA	0	NA	0	0 NA	63	ASIL-B	• eSHE
CYT2B94BACQ0AZEGS	80- LQFP	80	63	14 (3port)	ARM_C	CM4F/CM0+	160	Single precision	• •	92/44/4	•	1		D/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	34	8 63	3 12	8 9	7 3	NA	0	NA	0	0 NA	63	ASIL-B	• eSHE
CYT2B94CACQ0AZSGS	80- LQFP	80	63	14 (3port)	ARM_C	CM4F/CM0+	160	Single precision	•	92/44/4	•	1	•	D/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	34	8 6	3 12	8 9	7 3	NA	0	NA	0	0 NA	63	ASIL-B	• HSM
CYT2B94CACQ0AZEGS	80- LQFP	80	63	14 (3port)	ARM_C	CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	•	D/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	34	8 63	3 12	8 9	7 3	NA	0	NA	0	0 NA	63	ASIL-B	• HSM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

					Core			System						Debug			Me- mory			Ana- log	Tin	ner	Co	omm	unica	tion						Ex. Inter- rupt	Safety	Sec	urity
Ordering part number*	Package	Pin count	GPIO	Smart 10	Main Core type/ Crypto Core type	-CMAF (Single Core with FPU) -CMAF (Single Core with FPU) -CMAF_D (Dual core with FPU) -CMAF_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog RTC channel	Temperature sensor	Debug Interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	SCB channel	LIN channel	CAN FD channel CXPI channel	12S channel	Ethernet channel	-	Ethemet speed	FlexRay channel	SMIF (SPI/HyperBus)	External Interrupt channel	SIL level	Flash Security	eSHE/HSM
TRAVEO™ T2G CYT2B9 S	Series																																		
CYT2B95BACQ0AZSGS	100- LQFP	100	78	20 (4port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	39	8	63 1	2 8	9	8 4	NA	0	N	IA	0 0	NA	78	ASIL-B	• 6	eSHE
CYT2B95BACQ0AZEGS	100- LQFP	100	78	20 (4port)	ARM	1_CM4F/CM0+	160	Single precision	•	92/44/4	•	• 1	•	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	39	8	63 1	2 8	9	8 4	NA	0	N	IA	0 0	NA	78	ASIL-B	• 6	eSHE
CYT2B95CACQ0AZSGS	100- LQFP	100	78	20 (4port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	39	8	63 1	2 8	9	8 4	NA	0	N	IA	0 0	NA	78	ASIL-B	•	HSM
CYT2B95CACQ0AZEGS	100- LQFP	100	78	20 (4port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	39	8	63 1	2 8	9	8 4	NA	0	N	IA	0 0	NA	78	ASIL-B	•	HSM
CYT2B97BACQ0AZSGS	144- LQFP	144	122	29 (5port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	54	8	63 1	2 8	12	8 4	NA	0	N	IA	0 0	NA	122	ASIL-B	• 6	eSHE
CYT2B97BACQ0AZEGS	144- LQFP	144	122	29 (5port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	54	8	63 1	2 8	12	8 4	NA	0	N	IA	0 0	NA	122	ASIL-B	• 6	eSHE
CYT2B97CACQ0AZSGS	144- LQFP	144	122	29 (5port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	54	8	63 1	2 8	12	8 4	NA	0	N	IA	0 0	NA	122	ASIL-B	• I	HSM
CYT2B97CACQ0AZEGS	144- LQFP	144	122	29 (5port)	ARM	1_CM4F/CM0+	160	Single precision		92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	54	8	63 1	2 8	12	8 4	NA	0	N	IA	0 0	NA	122	ASIL-B	• 1	HSM
CYT2B98BACQ0AZSGS	176- LQFP	176	152	36 (5port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	64	8	63 1	2 8	12	8 4	NA	0	N	IA	0 0	NA	152	ASIL-B	• 6	eSHE
CYT2B98BACQ0AZEGS	176- LQFP	176	152	36 (5port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	64	8	63 1	2 8	12	8 4	NA	0	N	IA	0 0	NA	152	ASIL-B	• 6	≥SHE
CYT2B98CACQ0AZSGS	176- LQFP	176	152	36 (5port)	ARM	1_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	2112	128	256	64	8	63 1	2 8	12	8 4	NA	0	N	IA	0 0	NA	152	ASIL-B	• 1	HSM
CYT2B98CACQ0AZEGS	176- LQFP	176	152	36 (5port)	ARM	I_CM4F/CM0+	160	Single precision	• •	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	2112	128	256	64	8	63 1	2 8	12	8 4	NA	0	N	IA	0 0	NA	152	ASIL-B	• 1	HSM
TRAVEO™ T2G CYT2BL S	Series																																		
CYT2BL3BAAQ0AZSGS	64- LQFP	64	49	9 (3port)	ARM	1_CM4F/CM0+	160	Single precision	•	92/44/4	•	• 1	• 5	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	27	8	63 1	1 7	7	5 2	NA	0	N	A	0 0	NA	49	ASIL-B	• 6	≥SHE

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

					Core		System					Debug			Me- mory			Ana- log	Time	er	Com	muni	cation					Ex. Inter- rupt	Safety	Security
Ordering part number*	Package	Pin count	GPIO	Smart 10	Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU) -CM7F_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC Hardware Watchdop	RTC channel	ieinperature sensor Debug interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM (Motor control)	SCB channel	CAN FD channel	CXPI channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel SMIF (SPI/HyperBus)	External Interrupt channel	SIL level	Flash Security eSHE/HSM
TRAVEO™ T2G CYT2BL S	Series																													
CYT2BL3BAAQ0AZEGS	64- LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	92/44/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	128	512	27	8 6	3 11	7 7	5	2 NA	0	NA	0	0 NA	49	ASIL-B	• eSHE
CYT2BL3CAAQ0AZSGS	64- LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	27	8 6	3 11	7 7	5	2 NA	0	NA	0	0 NA	49	ASIL-B	• HSM
CYT2BL3CAAQ0AZEGS	64- LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	128	512	27	8 6	3 11	7 7	5	2 NA	0	NA	0	0 NA	49	ASIL-B	• HSM
CYT2BL4BAAQ0AZSGS	80- LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	34	8 6	3 12	8 9	7	3 NA	0	NA	0	0 NA	63	ASIL-B	• eSHE
CYT2BL4BAAQ0AZEGS	80- LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	128	512	34	8 6	3 12	8 9	7	3 NA	0	NA	0	0 NA	63	ASIL-B	• eSHE
CYT2BL4CAAQ0AZSGS	80- LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	34	8 6	3 12	8 9	7	3 NA	0	NA	0	0 NA	63	ASIL-B	• HSM
CYT2BL4CAAQ0AZEGS	80- LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	128	512	34	8 6	3 12	8 9	7	3 NA	0	NA	0	0 NA	63	ASIL-B	• HSM
CYT2BL5BAAQ0AZSGS	100- LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	39	8 6	3 12	8 9	8	4 NA	0	NA	0	0 NA	78	ASIL-B	• eSHE
CYT2BL5BAAQ0AZEGS	100- LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	128	512	39	8 6	3 12	8 9	8	4 NA	0	NA	0	0 NA	78	ASIL-B	• eSHE
CYT2BL5CAAQ0AZSGS	100- LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	39	8 6	3 12	8 9	8	4 NA	0	NA	0	0 NA	78	ASIL-B	• HSM
CYT2BL5CAAQ0AZEGS	100- LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	128	512	39	8 6	3 12	8 9	8	4 NA	0	NA	0	0 NA	78	ASIL-B	• HSM
CYT2BL7BAAQ0AZSGS	144- LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	54	8 6	3 12	8 12	2 8	4 NA	0	NA	0	0 NA	122	ASIL-B	• eSHE
CYT2BL7BAAQ0AZEGS	144- LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	• •	92/44/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	128	512	54	8 6	3 12	8 12	2 8	4 NA	0	NA	0	0 NA	122	ASIL-B	• eSHE
CYT2BL7CAAQ0AZSGS	144- LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	92/44/4	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	54	8 6	3 12	8 12	2 8	4 NA	0	NA	0	0 NA	122	ASIL-B	• HSM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

					Core			System					Debug			Me- mory			Ana- log	Tim	er	Con	ımuı	ication						Ex. Inter- rupt	Safety	Sec	urity
Ordering part number*	Package	Pin count	GPIO	Smart 10	Main Core type/ Crypto Core type	-CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU) -CM7F_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMAO/P-DMA1/M-DMA0)	RC-OSC Hardware Matchdog		lemperature sensor Debug Interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM (Motor control)	SCB channel	CAN FD channel	CXPI channel		Ethernet channel	Ethernet speed	FlexRay channel	SMIF (SPI/HyperBus)	External Interrupt channel	SIL level	Flash Security	eSHE/HSM
TRAVEO™ T2G CYT2BL S	Series																																
CYT2BL7CAAQ0AZEGS	144- LQFP	144	122	29 (5port)	ARM.	_CM4F/CM0+	160	Single precision	•	92/44/4	•	1	SWD/JT/ Trace		-40 to 125	4160	128	512	54	8 6	3 12	8 1	2 8	4 NA		0	NA	0 (	AN C	122	ASIL-B	•	HSM
CYT2BL8BAAQ1AZSGS	176- LQFP	176	152	36 (5port)	ARM.	_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JT/ Trace	2.7 to 5.5	-40 to 105	4160	128	512	64	8 6	3 12	8 1	2 8	4 NA		0	NA	0 0	) NA	152	ASIL-B	•	≥SHE
CYT2BL8BAAQ1AZEGS	176- LQFP	176	152	36 (5port)	ARM.	_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JT/ Trace		-40 to 125	4160	128	512	64	8 6	3 12	8 1	2 8	4 NA		0	NA	0 0	NA C	152	ASIL-B	•	eSHE
CYT2BL8CAAQ1AZSGS	176- LQFP	176	152	36 (5port)	ARM.	_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JT/ Trace		-40 to 105	4160	128	512	64	8 6	3 12	8 1	2 8	4 NA		0	NA	0 0	NA	152	ASIL-B	•	HSM
CYT2BL8CAAQ1AZEGS	176- LQFP	176	152	36 (5port)	ARM.	_CM4F/CM0+	160	Single precision	• •	92/44/4	•	1	SWD/JT/ Trace		-40 to 125	4160	128	512	64	8 6	3 12	8 1	2 8	4 NA	\	0	NA	0	NA	152	ASIL-B	•	HSM
TRAVEO™ T2G CYT3BB/	4BB Serie	es																															
CYT3BB5CEBQ1AESGS	100-TE- QFP	100	72	15 (3port)	ARM.	_CM7F/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JT/ Trace	2.7 to 5.5	-40 to 105	4160	256	768	39	7 6	3 12	9 9	8	0 TX 2ch, (2 insta		1 1	.0/100	0	1 1	72	ASIL-B	•	HSM
CYT3BB5CEBQ1AEEGS	100-TE- QFP	100	72	15 (3port)	ARM.	_CM7F/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JT/ Trace	2.7 to 5.5	-40 to 125	4160	256	768	39	7 6	3 12	9 9	8	0 TX 2ch, (2 insta		1 1	.0/100	0	1 1	72	ASIL-B	•	HSM
CYT3BB7CEBQ1AESGS	144-TE- QFP	144	116	27 (5port)	ARM.	_CM7F/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JT/ Trace		-40 to 105	4160	256	768	54	7 6	3 12	10 1	2 8	0 TX 3ch, (3 insta		1 1	0/100	0	1 1	116	ASIL-B	•	HSM
CYT3BB7CEBQ1AEEGS	144-TE- QFP	144	116	27 (5port)	ARM.	_CM7F/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JT/ Trace		-40 to 125	4160	256	768	54	7 6	3 12	10 1	2 8	0 TX 3ch, (3 insta		1 1	.0/100	0	1 1	116	ASIL-B	•	HSM
CYT3BB8CEBQ1AESGS	176-TE- QFP	176	148	36 (5port)	ARM.	_CM7F/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JT/ Trace		-40 to 105	4160	256	768	64	8 6	3 12	10 1	6 8	0 TX 3ch, (3 insta		1 1	.0/100	0	1 1	148	ASIL-B	•	HSM
CYT3BB8CEBQ1AEEGS	176-TE- QFP	176	148	36 (5port)	ARM.	_CM7F/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JT/ Trace	AG/ 2.7 to 5.5	-40 to 125	4160	256	768	64	8 6	3 12	10 1	6 8	0 TX 3ch, (3 insta	RX 3ch nces)	1 1	.0/100	0	1 1	148	ASIL-B	•	HSM
CYT3BBBCEBQ1BZSGS	272- BGA	272	220	36 (5port)	ARM.	_CM7F/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JT/ Trace	AG/ 2.7 to 5.5	-40 to 105	4160	256	768	72	8 6	3 12	11 1	6 8	0 TX 3ch, (3 insta		1 1	.0/100	0	1 1	220	ASIL-B	•	HSM
CYT3BBBCEBQ1BZEGS	272- BGA	272	220	36 (5port)	ARM.	_CM7F/CM0+	250	Dual precision	•	100/58/8	•	1	SWD/JT/ Trace		-40 to 125	4160	256	768	72	8 6	3 12	11 1	6 8	0 TX 3ch, 3 (3 insta		1 1	.0/100	0 2	1 1	220	ASIL-B	•	HSM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

					Core			System					Debug			Me- mory			Ana- log	Time	r (	Comr	nunic	ntion					Ex. Inter- rupt	Safety	Security
Ordering part number⁴	Package	Pin count	GPIO	Smart 10	Main Core type/ Crypto Core type	-CMAF (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU) -CM7F_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	los :	RTC channel	remperature sensor Debug Interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM 16bit TCPWM	16bit TCPWM (Motor control)	SCB channel LIN channel	CAN FD channel	12S channel	Ethernet channel	Ethernet speed	FlexRay channel	ırBus)	External Interrupt channel	SIL level	Flash Security eSHE/HSM
TRAVEO™ T2G CYT3BB/	4BB Serie	es																													
CYT4BB5CEBQ1AESGS	100-TE- QFP	100	72	15 (3port)	ARM_0	CM7F_D/CM0+	250	Dual precision	• •	100/58/8		1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	256	768	39	7 63	12	9 9	8 0	TX 2ch, RX 2ch (2 instances)	1	10/100	0 1	. 1	72	ASIL-B	• HSM
CYT4BB5CEBQ1AEEGS	100-TE- QFP	100	72	15 (3port)	ARM_0	CM7F_D/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	256	768	39	7 63	12	9 9	8 0	TX 2ch, RX 2ch (2 instances)	1	10/100	0 1	. 1	72	ASIL-B	• HSM
CYT4BB7CEBQ1AESGS	144-TE- QFP	144	116	27 (5port)	ARM_0	CM7F_D/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	256	768	54	7 63	12 1	.0 12	8 0	TX 3ch, RX 3ch (3 instances)	1	10/100	0 1	. 1	116	ASIL-B	• HSM
CYT4BB7CEBQ1AEEGS	144-TE- QFP	144	116	27 (5port)	ARM_0	CM7F_D/CM0+	250	Dual precision		100/58/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	256	768	54	7 63	12 1	.0 12	8 0	TX 3ch, RX 3ch (3 instances)	1	10/100	0 1	. 1	116	ASIL-B	• HSM
CYT4BB8CEBQ1AESGS	176-TE- QFP	176	148	36 (5port)	ARM_0	CM7F_D/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	256	768	64	8 63	12 1	.0 16	8 0	TX 3ch, RX 3ch (3 instances)	1	10/100	0 1	. 1	148	ASIL-B	• HSM
CYT4BB8CEBQ1AEEGS	176-TE- QFP	176	148	36 (5port)	ARM_0	CM7F_D/CM0+	250	Dual precision	• •	100/58/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	256	768	64	8 63	12 1	.0 16	8 0	TX 3ch, RX 3ch (3 instances)	1	10/100	0 1	. 1	148	ASIL-B	• HSM
CYT4BBBCEBQ1BZSGS	272- BGA	272	220	36 (5port)	ARM_0	CM7F_D/CM0+	250	Dual precision	• •	100/58/8	•	1 4	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	256	768	72	8 63	12 1	.1 16	8 0	TX 3ch, RX 3ch (3 instances)	1	10/100	0 1	. 1	220	ASIL-B	• HSM
CYT4BBBCEBQ1BZEGS	272- BGA	272	220	36 (5port)	ARM_0	CM7F_D/CM0+	250	Dual precision	• •	100/58/8	•	1 •	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	4160	256	768	72	8 63	12 1	.1 16	8 0	TX 3ch, RX 3ch (3 instances)	1	10/100	0 1	. 1	220	ASIL-B	• HSM
TRAVEO™ T2G CYT4BF S	Series																														
CYT4BF8CEDQ0AESGS	176-TE- QFP	176	148	36 (5port)	ARM_0	CM7F_D/CM0+	350	Dual precision	• •	143/65/8		1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	8384	256	1024	81	16 87	15 1	.0 17	10 0	TX 3ch, RX 3ch (3 instances)	1	10/100	0 1	. 1	148	ASIL-B	• HSM
CYT4BF8CEDQ0AEEGS	176-TE- QFP	176	148	36 (5port)	ARM_0	CM7F_D/CM0+	350	Dual precision	• •	143/65/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	8384	256	1024	81	16 87	15 1	.0 17	10 0	TX 3ch, RX 3ch (3 instances)	1	10/100	0 1	. 1	148	ASIL-B	• HSM
CYT4BF8CDDQ0AESGS	176-TE- QFP	176	148	36 (5port)	ARM_0	CM7F_D/CM0+	350	Dual precision		143/65/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	8384	256	1024	81	16 87	15 1	.0 17	10 0	TX 3ch, RX 3ch (3 instances)	1	10/100	2 1	. 1	148	ASIL-B	• HSM
CYT4BF8CDDQ0AEEGS	176-TE- QFP	176	148	36 (5port)	ARM_0	CM7F_D/CM0+	350	Dual precision	• •	143/65/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 125	8384	256	1024	81	16 87	15 1	.0 17	10 0	TX 3ch, RX 3ch (3 instances)	1	10/100	2 1	. 1	148	ASIL-B	• HSM
CYT4BFBCJDQ0BZSGS	272- BGA	272	220	36 (5port)	ARM_0	CM7F_D/CM0+	350	Dual precision	• •	143/65/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	8384	256	1024	96	16 87	15 1	.1 20	10 0	TX 3ch, RX 3ch (3 instances)	2	10/100/ 1000	0 1	. 1	220	ASIL-B	• HSM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

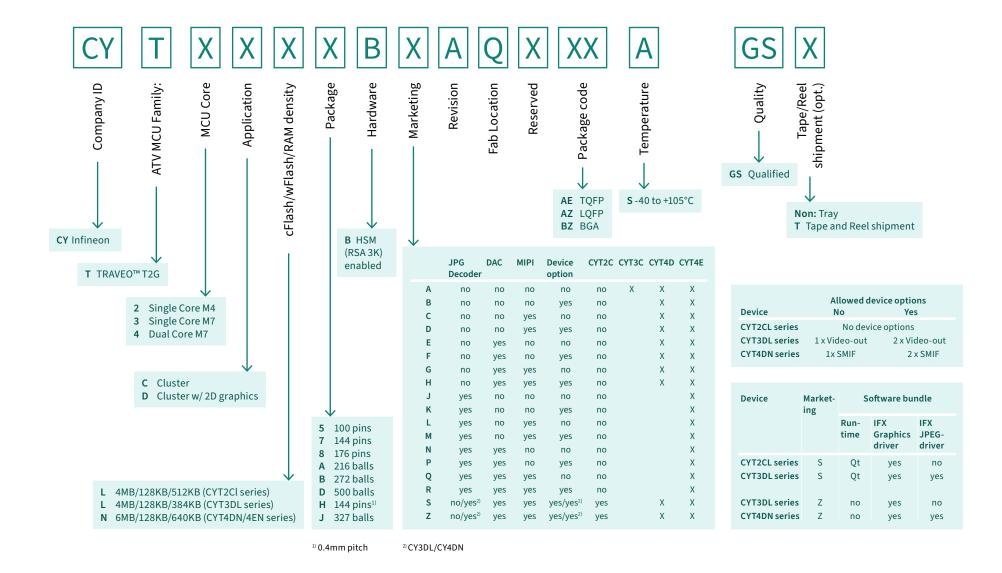
To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

					Core			System					Debug			Me- mory			Ana- log	Timer	. (	Comr	nunica	ation					Ex. Inter- rupt	Safety	Security
Ordering part number*	Package	Pin count	GPIO	Smart IO	Main Core type/ Crypto Core type	-CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU) -CM7F_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	RTC channel	Temperature sensor Debug Interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB)	SKAM (KB)	ADC Channel	32bit TCPWM 16bit TCPWM	16bit TCPWM (Motor control)	LIN channel	CAN FD channel	12S channel	Ethernet channel	Ethernet speed	FlexRay channel	SPI/HyperBus)	External Interrupt channel	SIL level	Flash Security eSHE/HSM
TRAVEO™ T2G CYT4BF S	Series																														
CYT4BFBCJDQ0BZEGS	272- BGA	272	220	36 (5port)	ARM_	CM7F_D/CM0+	350	Dual precision	• •	143/65/8	•	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	8384	256 10	24	96	16 87	15 1	1 20	10 0	TX 3ch, RX 3ch (3 instances)	2	10/100/ 1000	0 3	1 1	220	ASIL-B	• HSM
CYT4BFBCHDQ0BZSGS	272- BGA	272	220	36 (5port)	ARM_	CM7F_D/CM0+	350	Dual precision	• •	143/65/8		1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 105	8384	256 10	24	96	16 87	15 1	1 20	10 0	TX 3ch, RX 3ch (3 instances)	2	10/100/ 1000	2	1 1	220	ASIL-B	• HSM
CYT4BFBCHDQ0BZEGS	272- BGA	272	220	36 (5port)	ARM_	CM7F_D/CM0+	350	Dual precision	• •	143/65/8	•	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	8384	256 10	24	96	16 87	15 1	1 20	10 0	TX 3ch, RX 3ch (3 instances)	2	10/100/ 1000	2	1 1	220	ASIL-B	• HSM
CYT4BFCCJDQ0BZSGS	320- BGA	320	240	36 (5port)	ARM_	CM7F_D/CM0+	350	Dual precision	• •	143/65/8	•	1 •	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 105	8384	256 10	24	96	16 87	15 1	1 20	10 0	TX 3ch, RX 3ch (3 instances)	2	10/100/ 1000	0	1 1	240	ASIL-B	• HSM
CYT4BFCCJDQ0BZEGS	320- BGA	320	240	36 (5port)	ARM_	CM7F_D/CM0+	350	Dual precision	• •	143/65/8	•	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	8384	256 10	)24	96	16 87	15 1	1 20	10 0	TX 3ch, RX 3ch (3 instances)	2	10/100/ 1000	0	1 1	240	ASIL-B	• HSM
CYT4BFCCHDQ0BZSGS	320- BGA	320	240	36 (5port)	ARM_	CM7F_D/CM0+	350	Dual precision		143/65/8	•	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 105	8384	256 10	24	96	16 87	15 1	1 20	10 0	TX 3ch, RX 3ch (3 instances)	1 2	10/100/ 1000	2	1 1	240	ASIL-B	• HSM
CYT4BFCCHDQ0BZEGS	320- BGA	320	240	36 (5port)	ARM_	CM7F_D/CM0+	350	Dual precision	• •	143/65/8	•	1 4	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	8384	256 10	)24	96	16 87	15 1	1 20	10 0	TX 3ch, RX 3ch (3 instances)	2	10/100/ 1000	2	1 1	240	ASIL-B	• HSM
TRAVEO™ T2G CYT6BJ S	eries																														
CYT6BJ8DDAQ0AESGS	176-TE- QFP	176	145	36 (5port)	ARM_	CM7F_Q/CM0+	320	Dual precision	• •	143/65/8		1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 105	16768	512 20	)48	77	16 87	15 1	0 17	10 0	TX 3ch, RX 2ch (3 instances)	1	10/100	2	1 1	145	ASIL-B	• HSM
CYT6BJ8DDAQ0AEEGS	176-TE- QFP	176	145	36 (5port)	ARM_	CM7F_Q/CM0+	320	Dual precision	• •	143/65/8		1 •	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	16768	512 20	)48	77	16 87	15 1	0 17	10 0	TX 3ch, RX 2ch (3 instances)	1	10/100	2	1 1	145	ASIL-B	• HSM
CYT6BJBDHAQ0BZSGS	272- BGA	272	221	36 (5port)	ARM_	CM7F_Q/CM0+	320	Dual precision	• •	143/65/8		1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 105	16768	512 20	048	96	16 87	15 1	1 20	10 0	TX 3ch, RX 2ch (3 instances)	2	10/100/ 1000	2	1 1	220	ASIL-B	• HSM
CYT6BJBDHAQ0BZEGS	272- BGA	272	221	36 (5port)	ARM_	CM7F_Q/CM0+	320	Dual precision	• •	143/65/8	•	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	16768	512 20	)48	96	16 87	15 1	1 20	10 0	TX 3ch, RX 2ch (3 instances)	1 2	10/100/ 1000	2	1 1	220	ASIL-B	• HSM
CYT6BJCDHAQ0BZSGS	320- BGA	320	241	36 (5port)	ARM_	CM7F_Q/CM0+	320	Dual precision	• •	143/65/8	•	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 105	16768	512 20	)48	96	16 87	15 1	1 20	10 0	TX 3ch, RX 2ch (3 instances)		10/100/ 1000	2	1 1	240	ASIL-B	• HSM
CYT6BJCDHAQ0BZEGS	320- BGA	320	241	36 (5port)	ARM_	CM7F_Q/CM0+	320	Dual precision	•	143/65/8	•	1	SWD/JTA Trace	G/ 2.7 to 5.5	-40 to 125	16768	512 20	048	96	16 87	15 1	1 20	10 0	TX 3ch, RX 2ch (3 instances)	2	10/100/ 1000	2	1 1	240	ASIL-B	• HSM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

#### TRAVEO™ T2G Cluster decoder



### TRAVEO™ T2G Cluster

					Core			System					Debug			Mem	ory	Ana- log	Timeı	r Co	ommu	nicat	ion			Ex- ter- nal	Graphi	cs						LC S		Secu- rity
Ordering part number*	Package	Pin count	GPIO	Smart IO	Main Core type/ Crypto Core type	-CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog RTC channel Temperature sensor	Debug Interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB) SRAM (KB)	ADC Channel	32bit TCPWM 16bit TCPWM	16bit TCPWM (Motor control) SCB channel	LIN channel CAN FD channel	CXPI channel	Ethernet channel	Ethernet speed	FlexRay channel eMMC channel SMIF (SPI/HyperBus)	External Interrupt channel	MIPI D-PHY	LVDS IX PHY	LPDDR4/DDR3 PHY Graphics	2.5 D Engine (IRIS on-the-fly)	Video-out	Drawing engine	VRAM Protection	JPEG Decoder LCDC	SIL level	Flash Security eSHE/HSM
TRAVEO™ T2		DN Ser	ies																																	
CYT4DNJBA CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 1	168	0 2 x si 1 x	ngle / dual	NA •	• 1	. 2	• 4	3 • (	0 NA A	ASIL-B	● HSM
CYT4DNJBB CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	И7F_D/CM0+	320	Double- precision	• •	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 2	168	0 2 x si 1 x	ngle / dual	NA •	• 1	. 2	• 4	8 0	A AN C	ASIL-B	● HSM
CYT4DNJBC CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 1	168	1 2 x si 1 x	ngle / dual	NA •	• 1	. 2	• 4	8 0	) NA A	ASIL-B	• HSM
CYT4DNJBD CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 2	168	1 2 x si 1 x	ngle / dual	NA •	• 1	. 2	• 4 ME	8 0	) NA A	ASIL-B	● HSM
CYT4DNJBE CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 1	168	0 2 x si 1 x	ngle / dual	NA •	• 1	. 2	• 4	8 0	) NA A	ASIL-B	• HSM
CYT4DNJBF CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 2	168	0 2 x si 1 x	ngle / dual	NA •	• 1	. 2	• 4 ME	8 0	) NA A	ASIL-B	● HSM
CYT4DNJBG CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 1	168	1 2 x si	ngle / dual	NA •	• 1	. 2	• 4	8 0	) NA A	ASIL-B	• HSM
CYT4DNJBH CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4		0/100/ 1000	0 0 2	168	1 2 x si 1 x	ngle / dual	NA •	• 1	. 2	• 4	8 0	) NA A	ASIL-B	● HSM
CYT4DNJBJ CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+		Double- precision						2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 1	168	0 2 x si	ngle / dual	NA •	• 1	. 2	• 4	B • :	1 NA A	ASIL-B	• HSM
CYT4DNJBK CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4		0/100/ 1000	0 0 2	168	0 2 x si	ngle / dual	NA •	• 1	. 2	• 4	<b>.</b>	1 NA A	ASIL-B	● HSM
CYT4DNJB LCQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	И7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 1	168	1 2 x si	ngle / dual	NA •	• 1	2	• 4	<b>•</b> :	1 NA A	ASIL-B	● HSM
CYT4DNJBM CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	И7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4		0/100/ 1000	0 0 2	168	1 2 x si	ngle / dual	NA •	• 1	. 2	• 4	<b>.</b>	1 NA F	ASIL-B	● HSM
CYT4DNJBN CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double- precision	•	76/84/8	•	• 1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50	0 12	2 4	2 4	1 1	0/100/ 1000	0 0 1	168	0 2 x si 1 x	ngle / dual	NA •	• 1	. 2	• 4 ME	<b>.</b>	1 NA F	ASIL-B	• HSM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

### TRAVEO™ T2G Cluster

					Core			System					Debug			Mem		Ana- log	Timer	Co	mmun	icatio	n		Ex- ter- nal	Graphic	:s							Safe- ty	Secu- rity
Ordering part number*	Package	Pin count	GPIO	Smart IO	Main Core type/ Crypto Core type	-CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	DMA (P-DMAO/P-DMA1/M-DMA0)	RC-OSC Hardware Watchdog	RTC channel	Debug Interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB) SRAM (KB)	ADC Channel	32bit TCPWM 16bit TCPWM 16bit TCPWM (Motor control)	SCB channel	LIN channel CAN FD channel	L'S channel	Ethernet speed	FlexRay channel eMMC channel	SMIF (SPI/HyperBus) External Interrupt channel	MIPL D-PHY		LPDDR4/DDR3 PHY Graphics	2.5 D Engine (IRIS on-the-fly)	Video-out	Drawing engine VRAM	VRAM Protection	JPEG Decoder LCDC	SIL level	Flash Security eSHE/HSM
TRAVEO™ T2		DN Ser	ies																																
CYT4DNJBP CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	И7F_D/CM0+	320	Double- precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50 0	12	2 4	2 4 3	10/10	0 0 0	2 168	0 2 x sii	ngle / dual	NA •	•	1 2	• 4	В •	1 NA	ASIL-E	B ● HSM
CYT4DNJBQ CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	И7F_D/CM0+	320	Double- precision	•	76/84/8	•	1 •	SWD/JTAG/ Trace	2.7 to5.5	-40 to105	6336	128 640	48	32 50 0	12	2 4	2 4 3	1 10/10	0 0 0	1 168	1 2 x sii	ngle / dual	NA •	•	1 2	• 4 MI	В •	1 NA	ASIL-E	B • HSM
CYT4DNJBR CQ1BZSGS	327- BGA	327	168	8 (1port)	ARM_CN	M7F_D/CM0+	320	Double precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	6336	128 640	48	32 50 0	12	2 4	2 4 3	10/10	0 0 0	2 168	1 2 x sii	ngle / dual	NA •	•	1 2	• 4	B	1 NA	ASIL-E	B • HSM
TRAVEO™ T2	G CYT3	DL Ser	ies																																
CYT3DLBBA BQ1BZSGS	272- BGA	272	135	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	4160	128 384	48	32 50 0	12	2 4	2 4 3	1 10/10	0 0	2 135	0 1 x s	ngle	NA •	•	1 1	• 2 MI	В	0 NA	ASIL-E	B • HSM
CYT3DLBBA BQ1BZSGS	272- BGA	272	135	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	•	1 •	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	4160	128 384	48	32 50 0	12	2 4	2 4 :	1 10/10	0 0	2 135	0 1 x s	ngle	NA •	•	1 2	• 2 Mí	В •	0 NA	ASIL-E	• HSM
CYT3DLBBA BQ1BZSGS	272- BGA	272	135	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	4160	128 384	48	32 50 0	12	2 4	2 4 3	1 10/10	0 0	2 135	1 1 x s	ngle	NA •	•	1 1	• 2 MI	В	0 NA	ASIL-E	B ● HSM
CYT3DLBBA BQ1BZSGS	272- BGA	272	135	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	4160	128 384	48	32 50 0	12	2 4	2 4 3	1 10/10	0 0 0	2 135	1 1 x s	ngle	NA •	•	1 2	• 2 MI	В •	0 NA	ASIL-E	• HSM
CYT3DLBBA BQ1BZSGS	272- BGA	272	135	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	4160	128 384									0 1 x s							0 NA	ASIL-E	s ● HSM
CYT3DLBBA BQ1BZSGS	272- BGA	272	135	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	4160	128 384	48	32 50 0	12	2 4	2 4 3	10/10	0 0 0	2 135	0 1 x s	ngle	NA •	•	1 2	• 2	В •	0 NA	ASIL-E	B • HSM
CYT3DLBBA BQ1BZSGS	272- BGA	272	135	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105											1 1 x s									
CYT3DLBBA BQ1BZSGS	272- BGA	272	135	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	4160	128 384	48	32 50 0	12	2 4	2 4 3	1 10/10	0 0 0	2 135	1 1 x s	ngle	NA •	•	1 2	• 2	В	0 NA	ASIL-E	• HSM
CYT3DLBBA BQ1BZSGS	216- TEQFP	216	108	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	• •	76/84/8	•	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to105	4160	128 384	48	32 50 0	12	2 4	2 4 3	10/10	0 0 0	2 108	0 1 x s	ngle	NA •	•	1 1	• 2	В	0 NA	ASIL-E	• HSM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

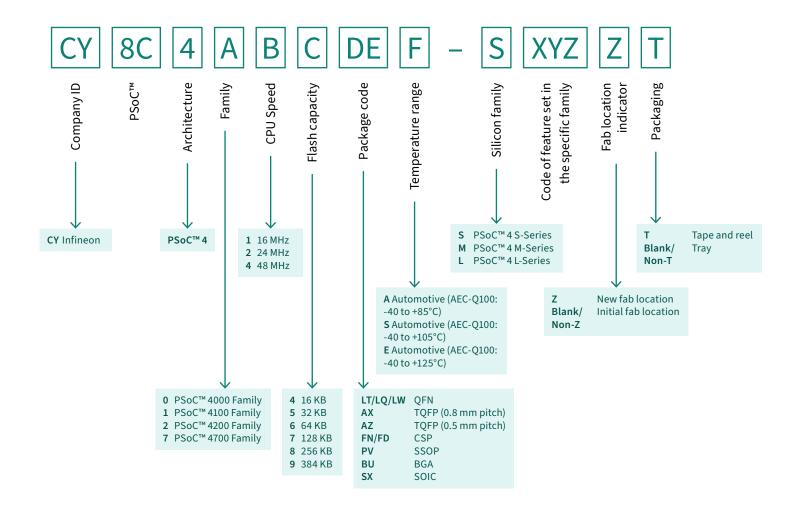
### TRAVEO™ T2G Cluster

					Core			System					Debug			Mem	nory	Ana log	Tin	ner	Com	nmun	icatio	on			Ex- ter- nal	Gra	phics							LCDC	Safe- ty	Secu- rity
Ordering part number*	Package	Pin count	GPIO	Smart IO	Main Core type/ Crypto Core type	-CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC Hardware Watchdog	hanne	perature ug Interfi	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB)	ADC Channel	32bit TCPWM	16bit TCPWM (Motor control)	SCB channel	CAN FD channel	CXPI cnannet I²S channel	Ethernet channel Fthernet speed		eMMC channel	External Interrupt channel	MIPI D-PHY	LVDS TX PHY	LPDDR4/DDR3 PHY Granhice	2.5 D Engine (IRIS on-the-fly)	Video-In	Video-out Drawing engine	VRAM	VRAM Protection JPEG Decoder	гсрс	SIL level	Flash Security eSHE/HSM
TRAVEO™ T	2G CYT3	DL Ser	ies																																			
CYT3DLBBA BQ1BZSGS		216	108	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128 38	4 48	32 5	0 0	12 2	4 :	2 4	1 10/1	.00	0 0 2	108	0 1	x single	e NA •	•	1 2	2 •	2 MB	• 0	NA	ASIL-B	• HSM
CYT3DLABC BQ1AESGS						CM7F/CM0+	240	Double- precision	• •	76/84/8	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to 105	4160	128 38	4 48	32 5	60 O	12 2	4 :	2 4	1 10/1	.00	0 2	108	1 1	x single	e NA •	•	1	1 •	2 MB	• 0	NA	ASIL-B	• HSM
CYT3DLABD BQ1AESGS		216	108	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	•	76/84/8	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to	4160	128 38	4 48	32 5	60 0	12 2	4	2 4	1 10/1	.00	0 2	108	1 1	x single	e NA •	•	1	2 •	2 MB	• 0	NA	ASIL-B	• HSM
CYT3DLABE BQ1AESGS		216	108	8 (1port)	ARM_C	CM7F/CM0+	240	Double- precision	• •	76/84/8	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to	4160	128 38	4 48	32 5	50 O	12 2	4 :	2 4	1 10/1	.00	0 2	108	0 1	x single	e NA •	•	1	1 •	2 MB	• 0	NA	ASIL-B	• HSM
CYT3DLABF BQ1AESGS	216-					CM7F/CM0+		-		76/84/8	• •	1	SWD/JTAG/ Trace						32 5	60 0	12 2	4 :	2 4	1 10/1	.00	0 0 2	108	0 1	x single	e NA •	•	1	2 •	2 MB	• 0	NA	ASIL-B	• HSM
CYT3DLABG BQ1AESGS	216-			_		CM7F/CM0+		D l. l.		76/84/8	•	1	SWD/JTAG/ Trace					_		60 O	12 2	_							x single						• 0	NA	ASIL-B	• HSM
CYT3DLABH BQ1AESGS	216-			0		CM7F/CM0+				76/84/8	• •	1	SWD/JTAG/ Trace							60 O	12 2								x single						• 0	NA	ASIL-B	• HSM
TRAVEO™ T																																						
CYT2CL7BA AQ0AZSGS	LQFP	144	108	(TDOLL)	ARM_C	CM4F/CM0+	160	Double- precision	•	76/84/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to	4160	128 51	2 48	16 4	16 0	12 2	4	2 2	0 N/	4	0 0 1	108	0	NA	NA N	A NA	NA N	IA NA	NA N	IA 0	2seg x 4com	ASIL-B	• HSM
CYT2CLHBA AQ0AZSGS	144- LQFP	1440.4 mm	108	0	ARM_C	CM4F/CM0+	160	Double- precision		76/84/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to	4160	128 51	2 48	16 4	16 0	12 2	4 :	2 2	0 N	4 (	0 0 1	108	0	NA	NA N	A NA	NA N	IA NA	NA N	IA 0	2seg x 4com	ASIL-B	• HSM
CYT2CL8BA	176-	176	140		ARM_C	CM4F/CM0+	160	Double- precision	• •	76/84/4	• •	1	SWD/JTAG/ Trace	2.7 to 5.5	-40 to	4160	128 51	2 48	16 4	16 0	12 2	4 :	2 2	0 N	A (	0 0 1	140	0	NA	NA N	A NA	NA N	IA NA	NA N	IA 0	2seg x 4com	ASIL-B	• HSM

<sup>\*:</sup> Supported shipment types are "Tray" (default) and "Tape and Reel".

To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

#### Automotive PSoC<sup>™</sup> 4 decoder



	Feat	ures																		F	Packag	es											Oper Temp	rating p.	
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	51 51	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	CAN	CAN-FD	СКУРТО	USB Full Speed	GPIO	16-SOIC	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-1QFP 80-TOFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4000-Series																																			
CY8C4014SXA-421/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	_	-   -	-   -	-	-	- 1	.0	• -	_	-	-	-	-	-	-	-	-   -	-	-	•	-	-
CY8C4014LQA-422	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-   -	-   -	-	-	- 1	.6	-   -	•	-	-	-	-	-	-	-	-   -	-	-	•	-	-
CY8C4014LQA-422/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	_	-   -	-   -	-	-	- 1	16	-   -	•	-	-	-	-	-	-	-	-   -	-	-	•	-	-
CY8C4014SXS-421/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	-	_   -	-   -	-	-	- 1	10	• -	-	-	-	-	-	-	-	-	-   -	-	-	-	•	-
CY8C4014LQS-422	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-   -	-   -	-	-	- 1	16	-   -	•	-	-	-	-	-	-	-	-   -	-	_	-	•	-
CY8C4014LQS-422/Z	16	16	2	-	-	•	_	-	-	_	1	1	1	-	-   -	-   -	-	-	- 1	16	-   -	•	-	-	-	-	-	-	-	-   -	-	-	-	•	-
CY8C4014LQE-422/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-   -	-   -	-	-	- 1	16	-   -	•	-	-	-	-	-	-	-	-   -	-	-	-	-	•
PSoC <sup>™</sup> 4100-Series																																			
CY8C4124PVA-442/Z	24	16	4	-	1	•	-	-	•	806 Ksps	2	4	2	-		-   -	-	-	- 2	24		-	•	-	-	-	-	-	-	-   -	-	-	•	-	-
CY8C4125PVA-482	24	32	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-   -	-   -	-	-	- 2	24	-   -	-	•	-	-	-	-	-	-	-   -	-	-	•	-	_
CY8C4125PVA-482/Z	24	32	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-   -	-   -	-	-	- 2	24	-   -	-	•	-	-	-	-	-	-	-   -	-	-	•	-	-
CY8C4124PVS-442/Z	24	16	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-   -	-   -	-	-	- 2	24	-   -	-	•	-	-	-	-	-	-	-   -	-	-	-	•	-
CY8C4125PVS-482/Z	24	32	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-   -	-   -	-	-	- 2	24	-   -	-	•	-	-	-	-	-	-	-   -	-	-	-	•	-
PSoC™ 4200-Series																																			
CY8C4244PVA-442Z	48	16	4	2	1	•	-	-	•	1000 Ksps	2	4	2	-	-   -	-   -	-	-	- 2	24	-   -	-	•	-	-	-	-	-	-	-   -	-	-	•	-	-
CY8C4245PVA-452Z	48	32	4	4	-	-	-	-	•	-	0	4	2			-   -	-	-	- 2	24	-   -	-	•	-	-	-	-	-	-	-   -	-	-	•	-	_
CY8C4245PVA-472Z	48	32	4	4	1	-	-	-	•	1000Ksps	2	4	2	-	-   -	-   -	-	-	- 2	24	-   -	-	•	-	-	-	-	-	-	-   -	-	-	•	-	-
CY8C4245PVA-482	48	32	4	4	1	•	-	-	•	1000 Ksps	2	4	2	-	-   -	-   -	-	-	- 2	24	-   -	-	•	-	-	-	-	-	-	-   -	-	-	•	-	-
CY8C4245PVA-482Z	48	32	4	4	1	•	-	-	•	1000 Ksps	2	4	2	-	-   -	-   -	-	-	- 2	24	-   -	_	•	-	-	-	-	-	-	-   -		_	•	-	-

	Feat	ures																			Pack	ages													Operat Temp.	
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	24	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN-ED	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +125°C
PSoC™ 4200-Series																																				
CY8C4244PVS-442Z	48	16	4	2	1	•	-	-	•	1000 Ksps	2	4	2	-	-	-   -	-   -	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-   -	-   •	• -
CY8C4245PVS-452Z	48	32	4	4	-	_	-	-	•	-	0	4	2	-	-	-   -	-   -	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-   -	- •	-
CY8C4245PVS-472Z	48	32	4	4	1	-	-	-	•	1000 Ksps	2	4	2	-	-	-   -	-   -	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-   -	-   •	-
CY8C4245PVS-482Z	48	32	4	4	1	•	-	-	•	1000 Ksps	2	4	2	-	-	-   -	-   -	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-   -	-	• -
PSoC <sup>™</sup> 4100M-Series																																				
CY8C4125AZA-M443	24	32	4	-	2	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	- '	• .	-   -
CY8C4125AZA-M445	24	32	4	-	2	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	- '	•	-   -
CY8C4126AZA-M443	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	-	-	38	-	-	-	-	-	-	-	•	-	-		-	-	- '	•	-   -
CY8C4126AZA-M445	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	- '	• .	-   -
CY8C4127AZA-M485	24	128	16	-	4	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	- '	•	-   -
CY8C4125AZS-M443	24	32	4	-	2	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	_	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-
CY8C4125AZS-M445	24	32	4	-	2	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-   -	- •	-
CY8C4126AZS-M443	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	-	-	38	-	-	-	-	-	-	-	•	-	-		-	-	-   -	-   •	-
CY8C4126AZS-M445	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-   -	- •	• -
CY8C4127AZS-M485	24	128	16	-	4	•	-	-	•	806 Ksps	2	8	4	•	-	-   -	-   -	_	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-   -	-	-
CY8C4245AZA-M443	48	32	4	4	2	•	-	-	•	1000 Ksps	2	8	4	•	-	-   -	-   -	-	-	38	-	-	-	-	-	-	-	•	-	-		-	-	-   '	• -	-   -
CY8C4245AZA-M445	48	32	4	4	2	•	-	-	•	1000 Ksps	2	8	4	•	-	-   -	-   -	_	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-   '	• .	-   -
CY8C4246AZA-M443	48	64	8	4	2	•	-	-	•	1000 Ksps	2	8	4	•	-	-   -	-   -	-	-	38	-	-	-	-	-	-	-	•	-	-		-	-	-   •	•	-   -
CY8C4246AZA-M445	48	64	8	4	2	•	-	-	•	1000 Ksps	2	8	4	•	-	-   -	-   -	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-   •	•   -	-   -

	Feat	ures																			Pack	ages													Opera Temp.	
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	FS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs CAN	CAN-FD	СКУРТО	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-ТQFР	80-TQFP	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC <sup>™</sup> 4200M–Series																																				
CY8C4247LWA-M464	48	128	16	4	4	•	-	-	•	1000 Ksps	2	8	4	•	-	-   -	-	-	-	46	-	-	-	-	-	-	-	-	•	-	-	-	-	-	•	-   -
CY8C4247AZA-M475	48	128	16	4	4	-	-	-	•	1000 Ksps	2	8	4	•	-	-   -	-	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-   -
CY8C4247AZA-M483	48	128	16	4	4	•	-	-	•	1000 Ksps	2	8	4	•	-	- 2	_	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	•	-   -
CY8C4247AZA-M485	48	128	16	4	4	•	-	-	•	1000 Ksps	2	8	4	•	-	- 2	-	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-   -
CY8C4247LWA-M484	48	128	16	4	4	•	-	-	•	1000 Ksps	2	8	4	•	-	- 2	-	-	-	46	-	-	-	-	-	-	-	-	•	-	-	-	-	-	•	-   -
CY8C4245AZS-M443	48	32	4	4	2	•	-	-	•	1000 Ksps	2	8	4	•	-	-   -	-	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-   '	• -
CY8C4245AZS-M445	48	32	4	4	2	•	-	-	•	1000 Ksps	2	8	4	•	-		_	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-	- '	• -
CY8C4246AZS-M443	48	64	8	4	2	•	-	-	•	1000 Ksps	2	8	4	•	-		-	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	- '	• -
CY8C4246AZS-M445	48	64	8	4	2	•	-	-	•	1000 Ksps	2	8	4	•	-	-   -	_	-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-	- '	• -
CY8C4247LWS-M464	48	128	16	4	4	•	-	-	•	1000 Ksps	2	8	4	•	-	-   -		-	-	46	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-   '	• -
CY8C4247AZS-M475	48	128	16	4	4	-	-	-	•	1000 Ksps	2	8	4	•	-	-   -		-	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-   '	• -
CY8C4247AZS-M483	48	128	16	4	4	•	-	-	•	1000 Ksps	2	8	4	•	-	- 2		-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	- '	• -
CY8C4247AZS-M485	48	128	16	4	4	•	-	-	•	1000 Ksps	2	8	4	•	-	- 2		_	-	51	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-   '	• -
CY8C4247LWS-M484	48	128	16	4	4	•	-	-	•	1000 Ksps	2	8	4	•	-	- 2	-	-	-	46	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-   '	• -
PSoC™ 4000S-Series																																				
CY8C4024LQA-S411	24	16	2	-	-	•	-	-	-	_	2	5	2	-	-	-   -		-	-	19	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4024PVA-S412	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-   -	_	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4025LQA-S411	24	32	4	-	-	•	-	-	-	_	2	5	2	-	-	-   -	-	-	-	19	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4025PVA-S412	24	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-   -	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -

	Feat	ures																			Pa	ckage	es												Opera Temp	ting
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	USB Full Speed	16.SOI <i>C</i>	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-ТQFР	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4000S-Series																																				
CY8C4045LQA-S411	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 1	9 -	_	•	-	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4045PVA-S412	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 2	4 -	_	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4024LQS-S411	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 1	9 -	_	•		-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4024PVS-S412	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 2	4 -	_	-	•	-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4025LQS-S411	24	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 1	9 -	_	•	-	-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4025PVS-S412	24	32	4	-	-	•	_	-	-	-	2	5	2	-	-	-	-	-	-	- 2	4 -	_	-	•	-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4045LQS-S411	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 1	9 -	-	•	-	-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4045PVS-S412	48	32	4	-	-	•	-	-	_	-	2	5	2	-	-	-	-	-	-	- 2	4 -	-	_	•	-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4024LQA-S413	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 3	4 -	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4025LQA-S413	24	32	4	-	-	•	-	-	_	-	2	5	2	-	_	-	-	-	-	- 3	4 -	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4045LQA-S413	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 3	4 -	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4024LQS-S413	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 3	4 -	-	-	-	-	•	-	-	-	-	-	-	-	-		• -
CY8C4025LQS-S413	24	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	- 3	4 -	_	-	-	-	•	-	-	-	-	-	-	-	-	-	• -
CY8C4045LQS-S413	48	32	4	-	-	•		-	-	-	2	5	2	-	-	-	-	-	-	- 3	4 -	-	-	-	-	•	-	-	-	-	-		-	-		• -
PSoC™ 4100S-Series																																				
CY8C4124PVA-S412	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	- 2·	4 -	-	-	•	-		-	-	-	-	-	-	-	-	•	
CY8C4124LQA-S413	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	- 3·	4 -	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4124PVA-S422	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 2	4 -	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4124LQA-S423	24	16	4	-	2	_	_	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 3	4 -	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -

	Feat	ures																			Pa	ckage	s												Opera Temp.	ting
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	135	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPIO	USB Full Speed	16-5010	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4100S-Series																																				
CY8C4124PVA-S432	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-   .	- 24	-	-	-	•	-		-	-	-	-	-	-	-	-	•	-   -
CY8C4124LQA-S433	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	_	-   .	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4125PVA-S412	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	_	-   .	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4125LQA-S413	24	32	4	-	2	•	-	-	•	-	2	5	2		-	16	-	-	-   .	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4125PVA-S422	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	_	-   .	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4125LQA-S423	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-   -	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4125PVA-S432	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	_	-	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4125LQA-S433	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-   -	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4146PVA-S422	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	2	-	-	16	-	-	-	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4146LQA-S423	48	64	8	-	2	_	_	-	•	1000 Ksps	2	5	3		-	16	-	-	-   .	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4146PVA-S432	48	64	8	_	2	•	-	-	•	1000 Ksps	2	5	3	-	-	16	-	_	-   .	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-   -
CY8C4146LQA-S433	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-	16	-	_	-   .	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-   -
CY8C4124PVS-S412	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	_	-   .	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4124LQS-S413	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	_	-   .	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	• -
CY8C4124PVS-S422	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-   .	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4124LQS-S423	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	_	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	• -
CY8C4124PVS-S432	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	- ]	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	• -
CY8C4124LQS-S433	24	16	4	-	2	•	_	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	• -
CY8C4125PVS-S412	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-   -	- 24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	• -

	Feat	ures																			P	ackage	es											-	Opera Temp	iting	
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	P.S.	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	USB Full Speed		16-SOIC 20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-ТQFР	80-ТQFР	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S-Series																																					
CY8C4125LQS-S413	24	32	4	_	2	•	-	-	•	-	2	5	2	-	_	16	-	-	-	- 34	4	-   -	_	-	-	•	-	-	-	-	-	-	-	-	-	• -	-
CY8C4125PVS-S422	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 24	4	-   -	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4125LQS-S423	24	32	4	_	2	-	-	-	•	806 Ksps	2	5	2	-	_	16	-	-	-	- 34	4	-   -	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-
CY8C4125PVS-S432	24	32	4	-	2	•	_	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 24	1	-   -	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4125LQS-S433	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	_	16	-	-	-	- 34	1	-   -	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-
CY8C4146PVS-S422	48	64	8	-	2	-	_	-	•	1000 Ksps	2	5	2	-	-	16	-	-	-	- 24	1	-   -	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146LQS-S423	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	3	-	_	16	-	-	-	- 34	4	-   -	_	-	-	•	-	-	-	-	-	-	-	-	-	•   -	-
CY8C4146PVS-S432	48	64	8	-	2	•	_	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	- 24	4	-   -	-	•	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4146LQS-S433	48	64	8	_	2	•	-	-	•	1000 Ksps	2	5	3	-	_	16	-	-	-	- 34	4	-   -	_	-	-	•	-	-	-	-	-	-	-	-	-	• -	-
CY8C4124PVE-S412	24	16	4	-	2	•	-	-	•	_	2	5	2	-	_	16	-	-	-	- 24	4	-   -		•	-	-	-	-	-	-	-	-	-	-	-	-   •	•
CY8C4124LQE-S413	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	- 34	4	-   -	_	-	-	•	-	-	-	-	-	-	-	-	-	- •	•
CY8C4124PVE-S422	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2		_	16	-	-	-	- 2	4	-   -		•	-	-	-	-	-	-	-	-	-	-	-	- •	•
CY8C4124LQE-S423	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 34	4	-   -		-	-	•	-	-	-	-	-	-	-	-	-	- (	•
CY8C4124PVE-S432	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 2	4	-   -	-	•	-	-	-	-	-	-	-	-	-	-	-	- 4	•
CY8C4124LQE-S433	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 34	1	-   -	-	-	-	•	-	-	-	-	-	-	-	-	-	- 4	•
CY8C4125PVE-S412	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	- 24	1	-   -	-	•	-	-	-	-	-	-	-	-	-	-	-	- 4	•
CY8C4125LQE-S413	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	- 34	1		-	-	-	•	-	-	-	-	-	-	-	-	-	- 4	•
CY8C4125PVE-S422	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 2	4	-   -	_	•	-	-	-	-	-	-	-	-	-	-	-	- •	•
CY8C4125LQE-S423	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	- 34	4	-   -	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•

	Feat	ures																			Pack	ages													peratir emp.	ng
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	\$ <u>1</u>	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	80-1 QFP	100-1QFP	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S-Series																																				
CY8C4125PVE-S432	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16 -	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-   -	-   -	-   -	-   -	-	•
CY8C4125LQE-S433	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	- !	16 –	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-   -	-   -	-   -	-   -	-	•
CY8C4146PVE-S422	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	2	-	-	16 –	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-   -	-   -	-   -	-   -	-	•
CY8C4146LQE-S423	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	3	-	-   :	16 –		-	-	34	-	-	-	-	-	•	-	-	-	-	-   -	-   -	-   -	-   -	-	•
CY8C4146PVE-S432	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-   :	16 –	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-   -	-   .	-   -	-   -	-	•
CY8C4146LQE-S433	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-   :	16 –	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-   -	-   .	-   -	-   -	-	•
PSoC™ 4100S Plus-Se	ries																																			
CY8C4126AZA-S455	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	5	•	• :	24 –		-	-	54	-	-	-	-	-	-	-	-	-	-	•	-   -	-   -	- •	-	_
CY8C4146AZA-S245	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•		-   -	- •	-	-
CY8C4146AZA-S255	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	_   .	-   -	- •	-	_
CY8C4146AZA-S265	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	_   .	-   -	. •	-	-
CY8C4146AZA-S275	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	_   .	-   -	- •	-	_
CY8C4146AZA-S455	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	5	•	• ]	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	-   -	-   -	- •	-	-
CY8C4127AZA-S445	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	_   .	-   -	- •	-	_
CY8C4127AZA-S455	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	-   .	-   -	- •	-	-
CY8C4147AZA-S245	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	5	•	• :	24 –		_	-	54	-	-	-	-	-	-	-	-	-	-	•	-   -	-   -	- •	·   -	_
CY8C4147AZA-S255	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	-   .	-   -	- •	-	-
CY8C4147AZA-S265	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	-   .	-   -	- •	-	_
CY8C4147AZA-S275	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	• :	24 –	-	-	-	54	-	-	-	-	-	-	-	-	-	-	•	-   .	-   -	- •	-	-

	Feat	ures																			Pa	ckage	s												Opera Temp	
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	Old	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-ТQFР	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4100S Plus-Se	eries																																			
CY8C4147AZA-S285	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-   -
CY8C4147AZA-S295	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-   -
CY8C4147AZA-S445	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-   -
CY8C4147AZA-S455	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-   -
CY8C4147AZA-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	
CY8C4147AZA-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-   -
CY8C4126AZS-S455	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4146AZS-S245	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4146AZS-S255	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4146AZS-S265	48	64	8	-	-	•	-	-		1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4146AZS-S275	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4146AZS-S455	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4127AZS-S445	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4127AZS-S455	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4147AZS-S245	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4147AZS-S255	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	_	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4147AZS-S265	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4147AZS-S275	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -
CY8C4147AZS-S285	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	• -

	Feat	ures																			Pac	kages													Opera Temp		
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	wco	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-ТQFР	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus-Se	ries																																				
CY8C4147AZS-S295	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-		54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	•	-
CY8C4147AZS-S445	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-		- 54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	•	-
CY8C4147AZS-S455	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-		54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	•	-
CY8C4147AZS-S465	48	128	16	-	2	_	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	54	_	-	-	-	-	-	-	-	-	-	•	-	-	-	-	•	_
CY8C4147AZS-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-		54	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	•	-
CY8C4126LQA-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-   -	34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	_
CY8C4146LQA-S243	48	64	8	-	-	_	-	-	_	1000 Ksps	2	8	4	•	•	24	-	-		34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LQA-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	_
CY8C4146LQA-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-		34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LQA-S273	48	64	8	-	-	•	-	_	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LQA-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-
CY8C4127LQA-S443	24	128	16	-	2	-	-	_	•	806 Ksps	2	8	4	•	•	24	-	-	-   -	34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	_
CY8C4127LQA-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-   -	34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S243	48	128	16	-	-	-	-	-	_	1000 Ksps	2	8	4	•	•	24	-	-	-   -	34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	_
CY8C4147LQA-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	34	_	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S263	48	128	16	-	-	•	-	-	_	1000 Ksps	2	8	4	•	•	24	-	-	-   -	- 34	_	-	-	-	-	•	-	-	-	-	-	-	-		•	-	_
CY8C4147LQA-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S283	48	128	16	-	-	_	-	_	•	1000 Ksps	2	8	4	•	•	24	1	-	-   -	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-   -	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-

	OS Plus-Series															Pa	ckage	s												perat emp.	ng					
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	13.5	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	USB Full Speed	16-501	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-ТQFР	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C -40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus-Se	ries																																			
CY8C4147LQA-S443	48	128	16	_	2	_	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -	-
CY8C4147LQA-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -	-
CY8C4147LQA-S463	48	128	16	_	2	_	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -	
CY8C4147LQA-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	- (	• -	-
CY8C4126LQS-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	-
CY8C4146LQS-S243	48	64	8	-	-	_	-	_	_	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	-
CY8C4146LQS-S253	48	64	8	-	_	_	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	-   •	-
CY8C4146LQS-S263	48	64	8	_	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	
CY8C4146LQS-S273	48	64	8	-	_	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	-
CY8C4146LQS-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	_	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	-
CY8C4127LQS-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	-
CY8C4127LQS-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	_
CY8C4147LQS-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	-
CY8C4147LQS-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	_
CY8C4147LQS-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	-
CY8C4147LQS-S273	48	128	16	-	-	•	_	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	_
CY8C4147LQS-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	- •	-
CY8C4147LQS-S293	48	128	16	-	-	•	-		•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-		- •	-
CY8C4147LQS-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 34	-	-	-	-	-	•	-	-	-	-	-	-	-	-   -	-   •	-

	Feat	ures	SRAM (KB)  UDB  Op-amp (CTBm)  CAPSENSE  I'S  I'S  I'S  I'S  I'S  I'S  I'S  I															Pack	ages												Ope Ten	eratin np.	g			
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	NLD-oc	64-WQFN	80-TOFP	100-TOFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus-Se	ries																																			
CY8C4147LQS-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -	-	-	-	•	-
CY8C4147LQS-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	L -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -		-   -	_	•	_
CY8C4147LQS-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	L -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -	-	-	-	•	-
CY8C4126LQE-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -	_	-	-	-	•
CY8C4146LQE-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -	-	-	-	-	•
CY8C4146LQE-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -			-	_	•
CY8C4146LQE-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -		-	-	-	•
CY8C4146LQE-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -			_	-	•
CY8C4146LQE-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -	-	-	-	-	•
CY8C4127LQE-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -		-	-	-	•
CY8C4127LQE-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -		-   -	-	-	•
CY8C4147LQE-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -			-	-	•
CY8C4147LQE-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -		-	-	-	•
CY8C4147LQE-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24 -	-   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -			-	-	•
CY8C4147LQE-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24 -	-   -	-   -	-   -	34	-	-	-	-	-	•	-	-   -	-	-   .	-   -	_   -	-   -	-	-	•
CY8C4147LQE-S283	48	128	16	-	-	-	_	-	•	1000 Ksps	2	8	4	•	•	24	L -	-   -	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -	_   -	-   -	-	-	•
CY8C4147LQE-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	L   -	-	-   -	34	-	-	-	-	-	•	-	-   -	-	-   -	-   -	-	-	-	-	•
CY8C4147LQE-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24 -		-	-   -	34	-	-	-	-	-	•	-	-   -	-	_   -	-   -	_		_	-	•
CY8C4147AZE-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	L -	-	-   -	54	-	-	-	-	-	-	-	-   -	-	-   •	•   -		-	_	-	•

	Feat	ures	Flash (KB) SRAM (KB) UDB Op-amp (CTBm) CAPSENSE  CAPSENSE  I2-bit Sar ADC I2-bit Sar ADC I2-bit Sar ADC CCO SCB Blocks WCO ECO SCAN CAN-FD CRYPTO																Pacl	kages												Opei Tem	rating p.			
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	રે.	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	So-QFN	64-TOFP	80-TQFP	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus-Se	ries																																			
CY8C4147AZE-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-		54	-	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	•
CY8C4126LQA-S455	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-   -	54	-		-	-	-	-	-	-   -	- •	-	-	-	-	•	-	-
CY8C4146LQA-S245	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-		54	-	-	-	-	-	-	-	-   -	-	-	-	-	-	•	-	-
CY8C4146LQA-S255	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	54	-	-	-	-	-	-	-	-   -	-   •	-		-	-	•	-	-
CY8C4146LQA-S265	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-		54	-	-	-	-	-	-	-	-   -	-   •	-	-	-	-	•	-	-
CY8C4146LQA-S275	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	54	-	-	-	-	-	-	-	-   -	-   •	-	-	-	-	•	-	-
CY8C4146LQA-S455	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	54	-	-	-	-	-	-	-	-   -	-   •	-	-	-	-	•	-	-
CY8C4127LQA-S445	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-   -	54	-	-	-	-	-	-	-	-   -	-   •	-	-	-	-	•	-	_
CY8C4127LQA-S455	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-		54	-	-	-	-	-	-	-	-   -	-	-	-	-	-	•	-	-
CY8C4147LQA-S245	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-   -	54	-	-	-	-	-	-	-	-   -	- •	-	-	-	-	•	-	-
CY8C4147LQA-S255	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-		54	-	-	-	-	-	-	-	-   -	-	-	-	-	-	•	-	-
CY8C4147LQA-S265	48	128	16	_	-	•	-	-	_	1000 Ksps	2	8	5	•	•	24	-	-		54	_	_	-	-	-	-	-	-   -	-   •	-		_	_	•	-	-
CY8C4147LQA-S275	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-		54	-	-	-	-	-	-	-	-   -	-   •	-	-	-	-	•	-	-
CY8C4147LQA-S285	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	54	-	-	-	-	-	-	-	-   -	-   •	-	-	-	-	•	-	-
CY8C4147LQA-S295	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-		54	-	-	-	-	-	-	-	-   -	-	-	-	-	-	•	-	-
CY8C4147LQA-S445	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	54	-	-	-	-	-	-	-	-   -	-   •	-	-	-	-	•	-	-
CY8C4147LQA-S455	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-		54	-	-	-	-	-	-	-	-   -	-   •	-	-	-	-	•	-	-
CY8C4147LQA-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	54	-	-	-	-	-	-	-	-   -	-   •	•   -	-	-	-	•	-	-
CY8C4147LQA-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-   -	54	-	-	-	-	-	-	-	-   -	-   •	·   -	-	-	-	•	-	-

																Pack	ages												Opera Temp						
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	135	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ЕСО	Smart IOs	CAN	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-Q+N	1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0	64-WOFN	64-ТQFР	80-TQFP	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4100S Plus-Se	ries																																		
CY8C4126LQS-S455	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4146LQS-S245	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24		-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4146LQS-S255	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4146LQS-S265	48	64	8	-	-	•	-	-	_	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4146LQS-S275	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4146LQS-S455	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•		-	_	-	-	• -
CY8C4127LQS-S445	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-		-   -	•	-	-	-	-	-	• -
CY8C4127LQS-S455	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•		-	_	-	-	• -
CY8C4147LQS-S245	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S255	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S265	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S275	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S285	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S295	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S445	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S455	48	128	16	-	2	•	_	-	•	1000 Ksps	2	8	5	•	•	24	-	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-   -	-	54	-	-	-	-	-	-		-   -	•	-	-	-	-	-	• -
CY8C4147LQS-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-   -	-	54	-	-	-	-	-	-	-   -	-   -	•	-	-	_	-	-	• -
CY8C4126LDA-S453	24	64	8	_	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-   -	_	38	-	-	-	-	-	-   '	• .	-   -	_	_	-	-	-	•	-   -

	Product type/ Product type/ Bartnumber  Max CPU Speed (MHz) Flash (KB) UDB Op-amp (CTBm) UDB Op-amp (CTBm)  LP Comparators TCPWM Blocks WCO ECO Smart IOS CAN-FD CRYPTO USB Full Speed															Pa	ckage	s											(	Opera Temp	ting					
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	St	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	OSB ruit Speed	16-501C	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4100S Plus-Se	ries																																			
CY8C4146LDA-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4146LDA-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4146LDA-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4146LDA-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4146LDA-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	
CY8C4127LDA-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4127LDA-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S263	48	128	16	-	-	•	-	-	_	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S283	48	128	16	-	-	_	_	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 38	-	_	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDA-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4126LDS-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4146LDS-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-   .	- 38	-	_	-	-	-	-	•	-	-	-	-	-	-	-	-	• -

	3     48     64     8     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -<																Pac	kages													perati emp.	ng				
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus-Se	ries																																			
CY8C4146LDA-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -		-	-
CY8C4146LDA-S253	48	64	8	-	-	-	_	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	•	-	
CY8C4146LDA-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-		-   •	-	-
CY8C4146LDA-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	-   •	-	-
CY8C4146LDA-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-		- •	-	-
CY8C4127LDA-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	- •	-	
CY8C4127LDA-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-		-   •	-	-
CY8C4147LDA-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	-   •	-	
CY8C4147LDA-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-			-	-
CY8C4147LDA-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	_	-	-	-	-	•	-	-	-	-	-	-   -		-	
CY8C4147LDA-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	- •	-	-
CY8C4147LDA-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-   -	38	-	_	-	-	-	-	•	-	-	-	-	-	-   -	- •	-	
CY8C4147LDA-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	- •	-	-
CY8C4147LDA-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	- •	-	
CY8C4147LDA-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	- •	-	-
CY8C4147LDA-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -		-	_
CY8C4147LDA-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-		.   •	-	-
CY8C4126LDS-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	_	-	-	-	-	•	-	-	-	-	-	-   -	-   -	- •	
CY8C4146LDS-S243	48	64	8	_	-	-	_	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-   -	-   -	-   •	-

	DS Plus-Series DS-S253															Pack	ages												Opera Temp							
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP 56-0EN	64-WOEN	64-TQFP	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus-Se	ries																																			
CY8C4146LDS-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	_	-	-	-	-	•	-
CY8C4146LDS-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	-	-	-	-	-	•	_
CY8C4146LDS-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	-	-	-	-	-	•	-
CY8C4146LDS-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-   -	-   -		38	-	-	-	-	-	-	•	-   -			-	_	-	-	•	-
CY8C4127LDS-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	_	-	-	-	-	•	-
CY8C4127LDS-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-   -	-   -		38	-	-	-	-	-	-	•	-   -		-	-	_	-	-	•	-
CY8C4147LDS-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	_	-	-	-	-	•	-
CY8C4147LDS-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•		-	-	-	-	-	-	•	-
CY8C4147LDS-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	-	-	-	-	-	•	-
CY8C4147LDS-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	-	-	-	-	-	•	_
CY8C4147LDS-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1 -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	-	-	-	-	-	•	-
CY8C4147LDS-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1 -	-   -	-	38	-	-	-	-	-	-	•	-   -		-	-	-	-	-	•	_
CY8C4147LDS-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	-	-	_	-	-	•	-
CY8C4147LDS-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -		-	-	-	-	-	•	-
CY8C4147LDS-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1 -	-   -	-	38	-	-	-	-	-	-	•	-   -		-	-	-	-	-	•	-
CY8C4147LDS-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1 -	-   -	-   -	38	-	-	-	-	-	-	•	-   -		-	-	-	-	-	•	-
CY8C4126LDE-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	-	-	-	-	-	-	-	•
CY8C4146LDE-S243	48	64	8	-	-	-	-	-	_	1000 Ksps	2	8	4	•	•	24	-   -	-   -		38	-	-	-	-	-	-	•			-	-	_	-	-	-	•
CY8C4146LDE-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-   -	-   -	-	38	-	-	-	-	-	-	•	-   -	_	-	_	-	-	-	-	•

	Feat	3 64 8 • 1000 Ksps 2 8 4 • • 24 3 64 8 - 2 • • 1000 Ksps 2 8 4 • • 24 4 128 16 - 2 • • 806 Ksps 2 8 4 • • 24 4 128 16 1000 Ksps 2 8 4 • • 24 3 128 16 1000 Ksps 2 8 4 • • 24																Pa	ckage	es											1	Opera Temp	iting			
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	СКУРТО	USB Full Speed	Je-Solf	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4100S Plus-Se	ries																																			
CY8C4146LDE-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4146LDE-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4146LDE-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4127LDE-S443	24	128	16	-	2	-	_	_	•	806 Ksps	2	8	4	•	•	24	-		-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4127LDE-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-		-	- 38	3 -	-	_	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1		-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDE-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	- 38	3 -	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
PSoC™ 4100S Max-Ser	ies																																			
CY8C4147AZE-S598	48	128	16		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 84	4 -	-	-	-	-	-	-	-	-	-	-	-	•	-	-	- •
CY8C4147AZE-S578	48	128	16		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 84	4 -	-	_	-	-	-	-	-	-	-	-	-	•	-	-	- •
CY8C4148AZE-S598	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 84	4 -	-	-	-	-	-	-	-	-	-	-	-	•	-	-	- •

	100S Max-Series															Pack	ages												Ope Ten	eratin np.	5						
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	A DO CENTE	TO T	1.5	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	300-TOEB	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Max-Se	ries																																				
CY8C4148LDE-S573	48	256	32		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1	_	-	38	-	-	-	-	-	-	•	-	-	-	-   -	-   -	-   -	-	-	•
CY8C4148LDE-S593	48	256	32		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1	•	-	38	-	-	-	-	-	-	•	-	-	-	-   -	-   -	-   -	-	-	•
CY8C4147AZA-S548	48	128	16		2	-		-	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	84	-	-	-	-	-	-	-	-	-	-	-   -	-   •	-	•	-	-
CY8C4147AZE-S548	48	128	16		2	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	84	-	-	-	-	-	-	-	-	-	-	-   -	-   •	·   -	-	-	•
CY8C4147AZS-S548	48	128	16		2	-		-	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	84	-	-	-	-	-	-	-	-	-	-	-   -	-   •	-	-	•	-
CY8C4147AZA-S555	48	128	16		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	54	-	-	-	-	-	-	-	-	-	-	• -	-   -	-   -	•		-
CY8C4147AZS-S555	48	128	16		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	54	-	-	-	-	-	-	-	-	-	-	• -	-   -	-   -	-	•	-
CY8C4147AZE-S555	48	128	16		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	54	-	-	-	-	-	-	-	-	-	-	• -	-   -	-   -	-	-	•
CY8C4147AZA-S558	48	128	16		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	84	-	-	-	-	-	-	-	-	-	-	-   -	-   •	-	•	-	-
CY8C4147AZS-S558	48	128	16		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	84	-	-	-	-	-	-	-	-	-	-	-   -	-   •	-	-	•	-
CY8C4147AZE-S558	48	128	16		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	84	-	-	-	-	-	-	-	-	-	-	-   -	-   •	-	-	-	•
CY8C4147AZA-S565	48	128	16		2	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1	.   -	-	54	-	-	-	-	-	-	-	-	-	-	• -	-   -	-   -	•	-	-
CY8C4147AZS-S565	48	128	16		2	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1		-	54	-	-	-	-	-	-	-	-	-	-	• -	-   -	-   -	-	•	-
CY8C4147AZE-S565	48	128	16		2	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1	-	-	54	-	-	-	-	-	-	-	-	-	-	• -	-   -	-   -	-	-	•
CY8C4147AZA-S568	48	128	16		2	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1	_	-	84	-	-	-	-	-	-	-	-	-	-	-   -	.   •	-	•	-	-
CY8C4147AZS-S568	48	128	16		2	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1		-	84	-	-	-	-	-	-	-	-	-	-	-   -	• •	<u> </u>	-	•	_
CY8C4147AZE-S568	48	128	16		2	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1		-	84	-	-	-	-	-	-	-	-	-	-	-   -	.   •	•			•
CY8C4147AZA-S575	48	128	16		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1	.   -	-	54	-	-	-	-	-	-	-	-	-	-	• -	-   -	-   -	•	-	-
CY8C4147AZS-S575	48	128	16		2	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1	.   -	-	54	-	-	-	-	-	-	-	-	-	-	•   -	-   -	-   -	-	•	-

	0S Max-Series  ZE-S575															Pa	ckages	5											Opera Temp							
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	МСО	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	OBJ	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	64-WOFN	64-TQFP	80-ТQFР	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Max-Sei	ries																																			
CY8C4147AZE-S575	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	- 54	-	_	-	-	-	-	-	-   -	_	•	_	_	-	-	-	•
CY8C4147AZA-S578	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	- 84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	•	-	_
CY8C4147AZS-S578	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	- 84	-	-	-	-	-	-	-	-   -	-	-	-	•	-		•	-
CY8C4147AZA-S585	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	• -	- 54	_	-	-	-	-	-	-	-   -		•	_	-	-	•		-
CY8C4147AZS-S585	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	• -	- 54	-	-	-	-	-	-	-	-   -	_	•	-	-	-	-	•	-
CY8C4147AZE-S585	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	• .	- 54	-	-	-	-	-	-	-	-   -		•	-	-	-	-	-	•
CY8C4147AZA-S588	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	•	-	-
CY8C4147AZS-S588	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 84	-	-	-	-	-	-	-	-   -			_	•	-	-	•	_
CY8C4147AZE-S588	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	• .	- 84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	-	-	•
CY8C4147AZA-S595	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	• -	- 54		-	-	-	-	-	-	-   -		•	-	-	-	•	-	-
CY8C4147AZS-S595	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	• .	- 54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	-	•	-
CY8C4147AZE-S595	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	• -	- 54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	-	-	•
CY8C4147AZA-S598	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	• .	- 84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	•	-	-
CY8C4147AZS-S598	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	• .	- 84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	-	•	_
CY8C4148AZA-S545	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	•	-	-
CY8C4148AZS-S545	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	-	•	_
CY8C4148AZE-S545	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	-	-	•
CY8C4148AZA-S548	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	•	-	_
CY8C4148AZS-S548	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	- 84	_	-	-	-	-	-	-	-   -	_	-	-	•	-	-	•	-

	00S Max-Series															Packa	ages												Opera Temp						
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	S:	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	48-OFN	48-TOFP	56-QFN	64-WQFN	64-ТQFР	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4100S Max-Se	ries																																		
CY8C4148AZE-S548	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	• 2	24 -	_	-	-	84	-	-	-	-	-	-   -	_	_	-	-	-	•	-	-	- •
CY8C4148AZA-S555	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -	-	-	-	54	-	-	-	-	-	-   -	-	-	-	•	-	-	-	•	-   -
CY8C4148AZS-S555	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -	-	-	-	54	-	-	-	-	-	-   -	-	-	-	•	-	-	-	-	• -
CY8C4148AZE-S555	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -		-	-	54	-	-	-	-	-	-   -	_	-	-	•	-	-	-	-	- •
CY8C4148AZA-S558	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•   :	24 -	-	-	-	84	-	-	-	-	-	-   -	-	-	-	-	-	•	-	•	
CY8C4148AZS-S558	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -	_	_	-	84	-	-	-	-	-	-   -	_		-	-	-	•	-	-	• -
CY8C4148AZE-S558	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -	-	-	-	84	-	-	-	-	-	-   -	-	-	-	-	-	•	-	-	- •
CY8C4148AZA-S565	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	• :	24 -	1	-	-	54	-	-	-	-	-	-   -	-		-	•	-	-		•	-   -
CY8C4148AZS-S565	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	• :	24 -	1	-	-	54	-	-	-	-	-	-   -	-	-	-	•	-	-	-	-	• -
CY8C4148AZE-S565	48	256	32		2	_	-	-	•	1000 Ksps	2	8	5	•	• 2	24 -	1	_	-	54	-	-	-	-	-	-   -	_	-	-	•	-	-	-	-	- •
CY8C4148AZA-S568	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	• 2	24 -	1	-	-	84	-	-	-	-	-	-   -	_	-	-	-	-	•	-	•	-   -
CY8C4148AZS-S568	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	• 2	24 -	1	-	-	84	-	-	-	-	-	-   -	_	-	-	-	-	•	-	-	• -
CY8C4148AZE-S568	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	• 2	24 -	1	-	-	84	-	-	-	-	-	-   -	_		-	-	-	•	-	-	- •
CY8C4148AZA-S575	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -	1	-	-	54	-	-	-	-	-	-   -	-	-	-	•	-	-	-	•	-   -
CY8C4148AZS-S575	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -	1	-	-	54	-	-	-	-	-	-   -	_	-	-	•	-	-	-		• -
CY8C4148AZE-S575	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -	1	-	-	54	-	-	-	-	-	-   -	-	-	-	•	-	-	-	-	- •
CY8C4148AZA-S578	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• :	24 -	1	-	-	84	-	-	-	-	-	-   -	-	-	-	-	-	•	-	•	-   -
CY8C4148AZS-S578	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 3	24 -	1	_	-	84	-	-	-	-	-	-   -	-	_	-	-	-	•	-	-	• -
CY8C4148AZE-S578	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	• 2	24 -	1	-	-	84	-	-	-	-	-	-   -	-	-	-	-	-	•	-	-	- •

	OS Max-Series															Packa	ages												Opera Temp							
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN-FD	СКУРТО	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	40-1 QFP 56-QFN	64-WQFN	64-TQFP	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Max-Sei	ies																																			
CY8C4148AZA-S585	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -		•	-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	•	-	-
CY8C4148AZS-S585	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -		•	-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	-	•	-
CY8C4148AZE-S585	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -		•	-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	-	-	•
CY8C4148AZA-S588	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	-	•	-	84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	•	-	-
CY8C4148AZS-S588	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	-	•	-	84	-	-	-	-	-	-	-   -	-   -	-	-	-	•	-	-	•	
CY8C4148AZE-S588	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	-   -	•	-	84	-	-	-	-	-	-	-   -	-   -	-	-	-	•	-	-	-	•
CY8C4148AZA-S595	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	. 1	•	-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	•	-	-
CY8C4148AZS-S595	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	. 1	•	-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	-	•	-
CY8C4148AZE-S595	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	. 1	•	-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	-	-	•
CY8C4148AZA-S598	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	. 1	•		84	-	-	-	-	-	-	-   -		-	-	-	•	-	•	-	-
CY8C4148AZS-S598	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	. 1	•	-	84	-	-	-	-	-	-	-   -	-   -	-	-	-	•	-	-	•	-
CY8C4149AZA-S545	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24 -	-			54	-	-	-	-	-	-	-   -		-	•	-	-	-	•		-
CY8C4149AZS-S545	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24 -	-		-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	-	•	-
CY8C4149AZE-S545	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24 -	-		-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	-	-	•
CY8C4149AZA-S548	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24 -	-	-	-	84	-	-	-	-	-	-	-   -	-   -	-	-	-	•	-	•	-	-
CY8C4149AZS-S548	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24 -	-			84	-	-	-	-	-	-	-   -		-	_	-	•	-	-	•	_
CY8C4149AZE-S548	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24 -	-	-	-	84	-	-	-	-	-	-	-   -	-   -	-	-	-	•	-	-	-	•
CY8C4149AZA-S555	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -		-	-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	•	-	-
CY8C4149AZS-S555	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	-   -	-	-	54	-	-	-	-	-	-	-   -	-   -	-	•	-	-	-	-	•	-

	Feat	ures																			Packa	ages												Opera Temp		
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	ાંડ	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ЕСО	Smart IOs	CAN-FD	СКУРТО	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP 56-OFN	64-WQFN	64-TQFP	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Max-Sei	ries																																			
CY8C4149AZE-S555	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -	-	-	54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	-	-	•
CY8C4149AZA-S558	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -		-	84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	•	-	_
CY8C4149AZS-S558	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -		-	84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	-	•	-
CY8C4149AZE-S558	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	-   -		-	84	-	-	-	-	-	-	-	-   -	-	_	-	•	-	-	-	•
CY8C4149AZA-S565	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24 -	- 1	-	-	54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	•	-	-
CY8C4149AZS-S565	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1		-	54	-	-	-	-	-	-	-	-   -	-	•	_	-	-	-	•	_
CY8C4149AZE-S565	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24 -	- 1	_	-	54	-	-	-	-	-	-	-		-	•	-	-	-	-	-	•
CY8C4149AZA-S568	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1	_	-	84	-	-	-	-	-	-	-		-	-	-	•	-	•	-	-
CY8C4149AZS-S568	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1	-	-	84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	-	•	-
CY8C4149AZE-S568	48	384	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	- 1		_	84	-	-	-	-	-	-	-	-   -	-	_	_	•	-	-	-	•
CY8C4149AZA-S575	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1		-	54	-	-	-	-	-	-	-	-   -	-	•	_	-	-	•	-	-
CY8C4149AZS-S575	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1		-	54	-	-	-	-	-	-	-	-   -	-	•	_	-	-	-	•	_
CY8C4149AZE-S575	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1		-	54	-	-	-	-	-	-	-	-   -	-	•	_	-	-	-	-	•
CY8C4149AZA-S578	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1	_	-	84	-	-	-	-	-	-	-	-   -	_	-	_	•	-	•	-	-
CY8C4149AZS-S578	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	- 1	-	-	84	-	-	-	-	-	-	-	-   -	-	-	_	•	-	-	•	-
CY8C4149AZE-S578	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	- 1	_	-	84	-	-	-	-	-	-	-	-   -	-	-	-	•	-	-	-	•
CY8C4149AZA-S585	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-   -	•	-	54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	•	-	-
CY8C4149AZS-S585	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	-   -	•	-	54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	-	•	_
CY8C4149AZE-S585	48	384	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24 -	-   -	•	-	54	-	-	-	-	-	-	-	-   -	-	•	-	-	-	-	-	•

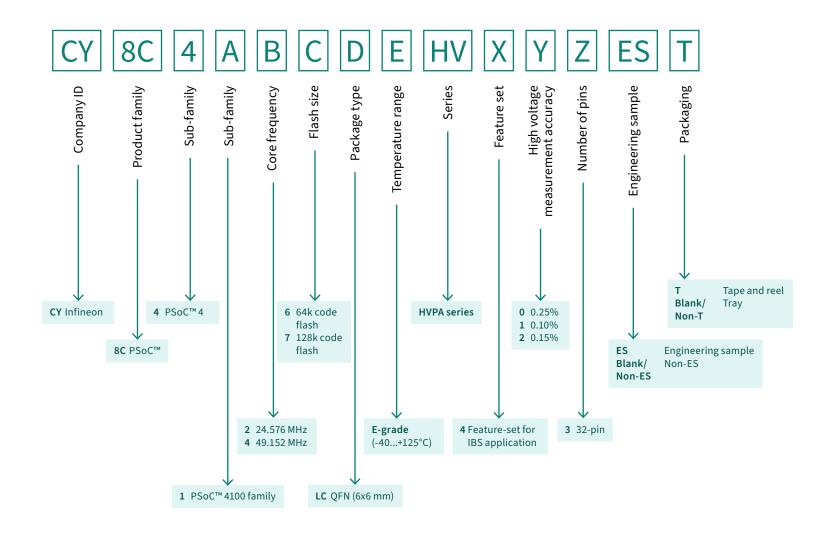
	Fea	tures																			Pac	:kages	5											Ope Tem	rating p.	
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	l <sup>2</sup> S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	мсо	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	OSB ruit Speed	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	N17-00	64-WQFN	80-TOFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Max-Se	ries								ı																											
CY8C4149AZE-S585	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 54	-	-	-	-	-	-	-	-   -	-   -	-   '	-	-	-	-	-	•
CY8C4149AZA-S588	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 84	-	-	-	-	-	-	-	-   -	-   -	-   -	-   -	•	-	•	-	_
CY8C4149AZS-S588	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 84	-	-	-	-	-	-	-	-   -	-   -	-	-   -	•	-	-	•	-
CY8C4149AZE-S588	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 84		-	-	-	-	-	-	-   -	-   -	-   -	-   -	•	-	-	-	•
CY8C4149AZA-S595	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 54	-	-	-	-	-	-	-	-   -	-   -	-   '	-	-	-	•	-	-
CY8C4149AZS-S595	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 54		-	-	-	-	-	-	-   -		- '	-		-	-	•	_
CY8C4149AZE-S595	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 54	-	-	-	-	-	-	-	-   -	-   -	-   '	-		-	-	-	•
CY8C4149AZA-S598	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 84	-	-	-	-	-	-	-	-   -	-   -	-   .	-   -	•	-	•	-	_
CY8C4149AZS-S598	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 84	-	-	-	-	-	-	-		-   -	_   .	-   -	•	-	-	•	-
CY8C4149AZE-S598	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 84	-	-	-	-	-	-	-			-   .	-   -	•	-	-	-	•
CY8C4147LDA-S543	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-   -	-   -	-   .	-   -	-	-	•	-	-
CY8C4147LDE-S543	48	128	16	-	2	_	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	_	-	-	-	-	-	•	-   -	-   -	-   -	-   -		-	-	-	•
CY8C4147LDS-S543	48	128	16	-	2	_	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	_	-	-	-	-	-	•	-   -	-   -	-   .	-   -		-	-	•	-
CY8C4147LDA-S553	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-   -	-   -	-   .	-   -		-	•	-	_
CY8C4147LDS-S553	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-   -	-   .	_   .	-   -	-	-	-	•	-
CY8C4147LDE-S553	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	-	-	-	-	-	-	•	-   -	-   -	_   .	-   -	-	-	-	-	•
CY8C4147LDA-S563	48	128	16	-	2	_	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	-	-	-	-	-	-	•	-   -	-   -	-   .	-   -	-	-	•	-	-
CY8C4147LDS-S563	48	128	16	-	2	_	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	-	-	-	-	-	-	•	-   -		_	-   -	-	-	-	•	-
CY8C4147LDE-S563	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	-	-	-	-	-	-	•	-   -	-   -	-   -	-   -	-	-	-	-	•

	Feat	ures																			Pack	cages													Opera Temp	
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ЕСО	Smart IOs	CAN	CAN-FD	CRYPTO USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4100S Max-Ser	ries																																			
CY8C4147LDA-S573	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1		38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	
CY8C4147LDS-S573	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4147LDE-S573	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDA-S583	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	• -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDS-S583	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	• -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4147LDE-S583	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-		• -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4147LDA-S593	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	• -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4147LDS-S593	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	• -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4147LDE-S593	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	• -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4148LDA-S543	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4148LDS-S543	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4148LDE-S543	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-
CY8C4148LDA-S553	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4148LDS-S553	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4148LDE-S553	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4148LDA-S563	48	256	32	-	2	_	_	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4148LDS-S563	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4148LDE-S563	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4148LDA-S573	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-   -	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	

	Feat	tures																				Р	ackag	es												Opera Temp	
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	(T. C.	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	СКУРТО	USB Full Speed		16-SOIC	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-ТQFР	80-ТQFР	100-ТQFР	124-VFBGA	-40 to +85°C	-40 to +105°C -40 to +125°C
PSoC™ 4100S Max-Se	ries																																				
CY8C4148LDS-S573	48	256	32	_	] :	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4148LDA-S583	48	256	32	_	:	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4148LDS-S583	48	256	32	-	:	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4148LDE-S583	48	256	32	-	] :	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4148LDA-S593	48	256	32	-	:	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4148LDS-S593	48	256	32	_	:	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 38	3	-   -		-	-	-	•	_	-	-	-	-	-	-		• -
CY8C4149LDA-S543	48	384	32	-	:	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4149LDS-S543	48	384	32	_	:	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	3	-   -	-	-	-	-	•	-	_	-	-	-	-	-	-	• -
CY8C4149LDE-S543	48	384	32	-	:	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4149LDA-S553	48	384	32	-	:	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	3	-   -	-	-	-	-	•		-	-	-	-	-	-	•	-   -
CY8C4149LDS-S553	48	384	32	-	1	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4149LDE-S553	48	384	32	_	:	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	- 38	3	-   -		-	-	-	•	-	_	-	-	-	-	-	-	- •
CY8C4149LDA-S563	48	384	32	-	] :	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	•	
CY8C4149LDS-S563	48	384	32	-	:	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	3	-   -	-	-	-	-	•	-	_	-	-	-	-	-	-	• -
CY8C4149LDE-S563	48	384	32	-	:	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	-	- •
CY8C4149LDA-S573	48	384	32	_	1	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -
CY8C4149LDS-S573	48	384	32	-	:	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	-	• -
CY8C4149LDE-S573	48	384	32	_	] :	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	- 38	3	-   -	-		-	_	•	-	-	-	-	-	-	-	-	- •
CY8C4149LDA-S583	48	384	32	-	:	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 38	3	-   -	-	-	-	-	•	-	-	-	-	-	-	-	•	-   -

	Feat	ures																			Р	ackag	es											Ope Tem	erating	5
Product type/ partnumber	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	PS	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	СКУРТО	USB Full Speed	GPIO	18-SOIC 20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-ТQFР	56-QFN	64-WQFN	64-TQFP	80-1 QFP 100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Max-Se	ries																																			
CY8C4149LDS-S583	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 3	88 -	-   -	-	-	-	-	•	-	-		-   -	-   -	-	-	•	-
CY8C4149LDE-S583	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	- 3	88 -	-   -	-	-	-	-	•	-	-	-   -	-   -	-   -	-	-	-	•
CY8C4149LDA-S593	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 3	88 -	-   -	-	-	-	-	•	-	-	-   -	-   -	-   -	-	•	-	-
CY8C4149LDS-S593	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 3	88 -	-   -	-	-	-	-	•	-	-	-   -	-   -	-   -	-		•	-
CY8C4149LDE-S593	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	- 3	88 -	-   -	-	-	-	-	•	-	-		-   -	-   -	-	-	-	•
PSoC™ 4700S Plus-Se	ries																																			
CY8C4746LQS-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	- 3	34 -	-   -	-	-	-	•	-	-	-		-   -	-   -	-	-	•	-
CY8C4747LQS-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	- 3	34	-   -	-	-	-	•	-	-	-	-   -	-   -	-   -	-	-	•	-
PSoC™ 4200L-Series															·																					
CY8C4248BZA-L489	48	256	32	8	4	•	-	•	•	1000 Ksps	2	8	4	-	-	-	2	-	-	• 9	8 -	-   -	-	-	-	-	-	-	-	-   -	-   -	-   -	•	•	-	-
CY8C4248BZS-L489	48	256	32	8	4	•	-	•	•	1000 Ksps	2	8	4	-	-	-	2	-	-	• 9	8	-   -	-	-	-	-	-	-	-		-   -	-   -	•	-	•	-

## PSoC<sup>™</sup> 4 HVPA (High Voltage Precision Analog)



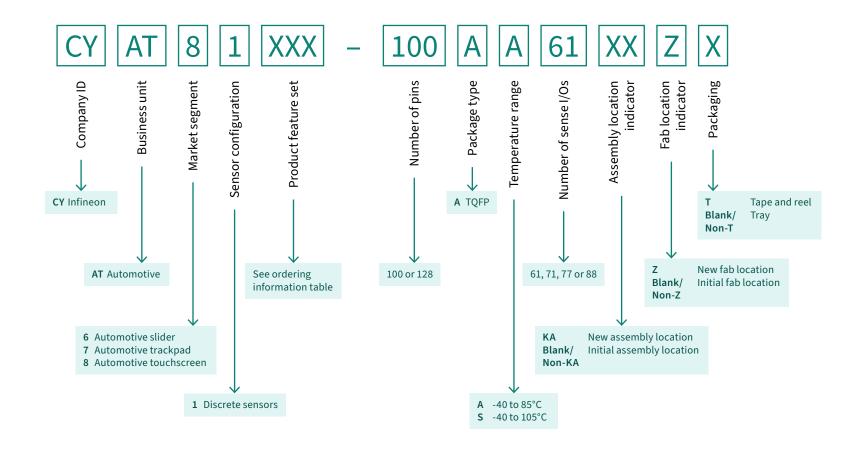
# PSoC<sup>™</sup> 4 HVPA (High Voltage Precision Analog)

	Features																		Packa	ges	Operating Temp	
MPN	Max CPU Speed (MHz)	Code Flash (KB) with ECC	Data Flash EEPROM with ECC	SRAM (KB) with ECC	16-20 bit Precision ΔΣ ADC	Digital Channels	Overcurrent Detection (OCD) comparators	Current measurement accuracy	"High Voltage measurement los (with 28V HV divider)"	"High Voltage (w/HV dividers) measurement accuracy"	TCPWM Blocks	SCB Blocks	LIN Controller	"High Voltage Subsystem (LDO, LIN PHY)"	СКУРТО	CAN / CAN-FD	iso-UART	GPIO	32-QFN (5*5mm)	48-QFN (7*7mm)	-40 to +125C	Target Applications
HVPA-144k 412X LIN																						
CY8C4126LCE-HV403	24,576	64	8	4	2	4	-	0.30%2	2	0,25%	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4126LCE-HV413	24,576	64	8	4	2	4	-	0.30%²	2	0.1%1	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4126LCE-HV423	24,576	64	8	4	2	4	-	0.30%2	2	0.15%1	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4127LCE-HV403	24,576	128	8	8	2	4	-	0.30%2	2	0,25%	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4127LCE-HV413	24,576	128	8	8	2	4	-	0.30%²	2	0.1%1	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4127LCE-HV423	24,576	128	8	8	2	4	-	0.30%²	2	0.15%1	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb
HVPA-144k 414X LIN																						
CY8C4147LCE-HV403	49,152	128	8	8	2	4	-	0.30%²	2	0,25%	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4147LCE-HV413	49,152	128	8	8	2	4	-	0.30%2	2	0.1%1	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4147LCE-HV423	49,152	128	8	8	2	4	-	0.30%²	2	0.15%1	4	1	•	•	-	-	-	9	•	-	•	Intelligent Battery Sensors (IBS) for 12V Pb

<sup>1-40°</sup>C <TA< 85°C, 11V<VBAT<14V

<sup>2 -40°</sup>C <TA< 105°C, VBAT<19V

## **Gen6XL – First high performance single chip Touch Controller**



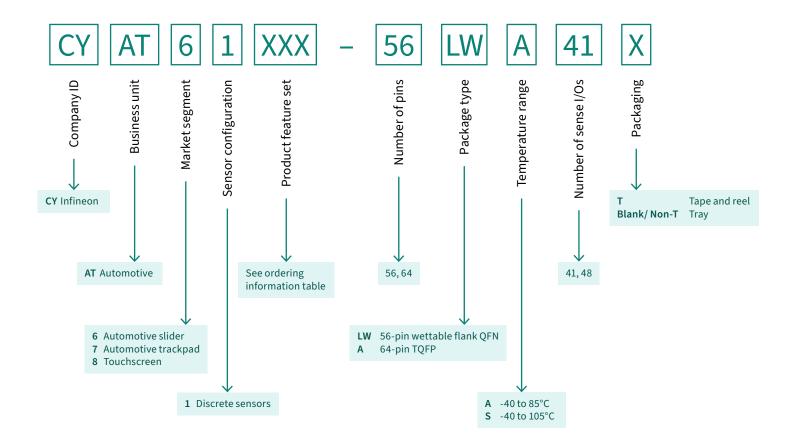
# **Gen6XL – First high performance single chip Touch Controller**

Product type/ partnumber	Number of Sense pins	Number of fingers	Low power wake-up button	Capsense Buttons	Water Rejection	Thin Glove support	Display Armor	Gestures	Thick Overlay/Thick Glove support	5-V T <sub>X</sub>	Package
TSG6_XL											
CYAT81682-100AA61Z	61	10	-	•	•	•	•	_	-	-	100 TQFP
CYAT81682-100AS61Z	61	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-100AA71Z	71	10	_	•	•	•	•	-	-	_	100 TQFP
CYAT81682-100AS71Z	71	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-100AA77Z	77	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-100AS77Z	77	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-128AA88Z	88	10	_	•	•	•	•	_	-	-	128 TQFP
CYAT81682-128AS88Z	88	10	-	•	•	•	•	-	-	-	128 TQFP
CYAT81685-100AA61Z	61	10	_	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AS61Z	61	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AA71Z	71	10	_	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AS71Z	71	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AA77Z	77	10	_	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AS77Z	77	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-128AA88Z	88	10	-	•	•	•	•	•	-	_	128 TQFP
CYAT81685-128AS88Z	88	10	-	•	•	•	•	•	-	-	128 TQFP
CYAT81688-100AA61Z	61	10	_	•	•	•	•	•	•	•	100 TQFP
CYAT81688-100AS61Z	61	10	-	•	•	•	•	•	•	•	100 TQFP
CYAT81688-100AA71Z	71	10	_	•	•	•	•	•	•	•	100 TQFP

# **Gen6XL – First high performance single chip Touch Controller**

Product type/ partnumber	Number of Sense pins	Number of fingers	Low power wake-up button	Capsense Buttons	Water Rejection	Thin Glove support	Display Armor	Gestures	Thick Overlay/Thick Glove support	5.V Tx	Package
TSG6_XL											
CYAT81688-100AS71Z	71	10	-	•	•	•	•	•	•	•	100 TQFP
CYAT81688-100AA77Z	77	10	-	•	•	•	•	•	•	•	100 TQFP
CYAT81688-100AS77Z	77	10	_	•	•	•	•	•	•	•	100 TQFP
CYAT81688-128AA88Z	88	10	-	•	•	•	•	•	•	•	128 TQFP
CYAT81688-128AS88Z	88	10	-	•	•	•	•	•	•	•	128 TQFP
CYAT81689-100AA61Z	61	10	•	•	•	•	•	•	•	•	100 TQFP
CYAT81689-100AS61Z	61	10	•	•	•	•	•	•	•	•	100 TQFP
CYAT81689-100AA77Z	77	10	•	•	•	•	•	•	•	•	100 TQFP
CYAT81689-100AS77Z	77	10	•	•	•	•	•	•	•	•	100 TQFP
CYAT81689-128AA88Z	88	10	•	•	•	•	•	•	•	•	128 TQFP
CYAT81689-128AS88Z	88	10	•	•	•	•	•	•	•	•	128 TQFP
CYAT81689-100AS71Z	71	10	•	•	•	•	•	•	•	•	100 TQFP

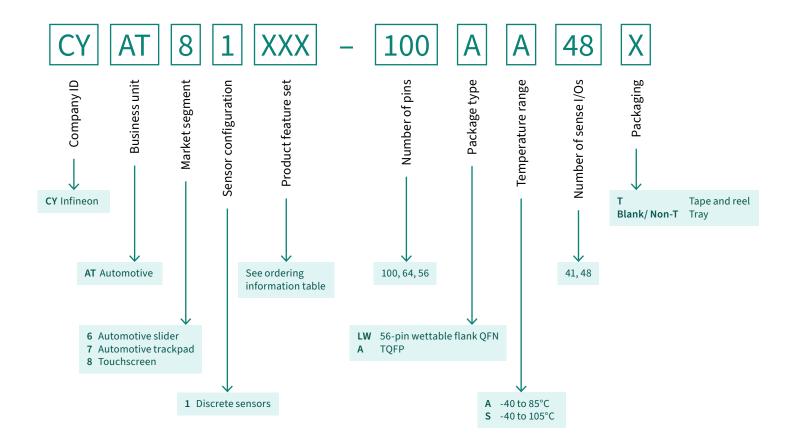
#### **Gen6L - Slider solution**



## **Gen6L - Slider solution**

Product type/ partnumber	No of Sense pins	No of Fingers	Slider	Wake up button support	Capsense Buttons	Water Rejection	Thin Glove Support	Thick Overlay/Thick Glove support	Package
TSG6_L			1						
CYAT61652-56LWA41	41	10	•		•	•	•		56 QFN
CYAT61652-56LWS41	41	10	•		•	•	•		56 QFN
CYAT61658-56LWA41	41	10	•		•	•	•	•	56 QFN
CYAT61658-56LWS41	41	10	•		•	•	•	•	56 QFN
CYAT61659-56LWA41	41	10	•	•	•	•	•	•	56 QFN
CYAT61659-56LWS41	41	10	•	•	•	•	•	•	56 QFN
CYAT61652-64AA48	48	10	•		•	•	•		64 TQFP
CYAT61652-64AS48	48	10	•		•	•	•		64 TQFP
CYAT61658-64AA48	48	10	•		•	•	•	•	64 TQFP
CYAT61658-64AS48	48	10	•		•	•	•	•	64 TQFP
CYAT61659-64AA48	48	10	•	•	•	•	•	•	64 TQFP
CYAT61659-64AS48	48	10	•	•	•	•	•	•	64 TQFP

#### Gen6L - Low cost Touch controller solution



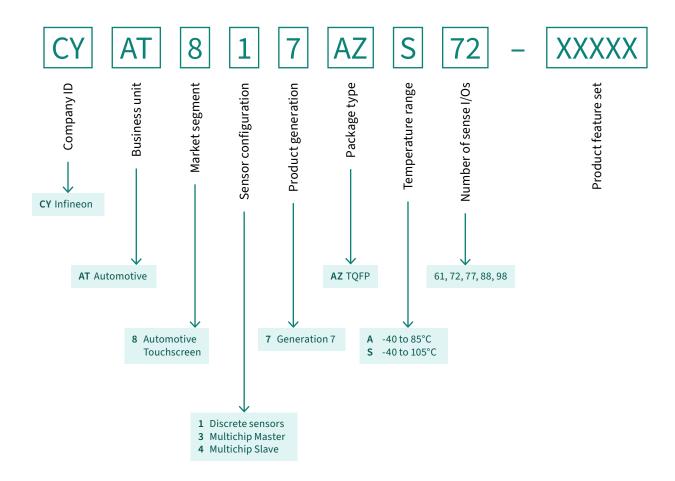
## Gen6L – Low cost Touch controller solution

Product type/ partnumber	No of Sense pins	No of Fingers	Wake up button/Wake on screen	Capsense Buttons	Water Rejection	Thin Glove Support	Gestures	Thick Overlay/Thick Glove support	Package
TSG6_L									
CYAT81650-100AA48	48	10	-	-	-	-	-	-	100-pin TQFP
CYAT81650-100AS48	48	10	-	-	-	-	-	-	100-pin TQFP
CYAT81652-100AA48	48	10	_	•	•	•	-	-	100-pin TQFP
CYAT81652-100AS48	48	10	-	•	•	•	-	-	100-pin TQFP
CYAT81655-100AA48	48	10	_	•	•	•	•	-	100-pin TQFP
CYAT81655-100AS48	48	10	_	•	•	•	•	-	100-pin TQFP
CYAT81658-100AA48	48	10	_	•	•	•	•	•	100-pin TQFP
CYAT81658-100AS48	48	10	-	•	•	•	•	•	100-pin TQFP
CYAT81659-100AA48	48	10	•	•	•	•	•	•	100-pin TQFP
CYAT81659-100AS48	48	10	•	•	•	•	•	•	100-pin TQFP
CYAT81650-64AA48	48	10	-	-	-	-	-	-	64-pin TQFP
CYAT81650-64AS48	48	10	-	-	-	-	-	-	64-pin TQFP
CYAT81652-64AA48	48	10	-	•	•	•	-	-	64-pin TQFP
CYAT81652-64AS48	48	10	-	•	•	•	-	-	64-pin TQFP
CYAT81655-64AA48	48	10	-	•	•	•	•	-	64-pin TQFP
CYAT81655-64AS48	48	10	-	•	•	•	•	-	64-pin TQFP
CYAT81658-64AA48	48	10	-	•	•	•	•	•	64-pin TQFP
CYAT81658-64AS48	48	10	-	•	•	•	•	•	64-pin TQFP
CYAT81659-64AA48	48	10	•	•	•	•	•	•	64-pin TQFP

## Gen6L - Low cost Touch controller solution

Product type/ partnumber	No of Sense pins	No of Fingers	Wake up button/Wake on screen	Capsense Buttons	Water Rejection	Thin Glove Support	Gestures	Thick Overlay/Thick Glove support	Package
CYAT81659-64AS48	48	10	•	•	•	•	•	•	64-pin TQFP
CYAT71658-56LWS41	41	10	•	•	•	•	•	•	56-pin QFN
CYAT71658-56LWA41	41	10	•	•	•	•	•	•	56-pin QFN

#### **Gen7XL – Touch Controller with advanced features**



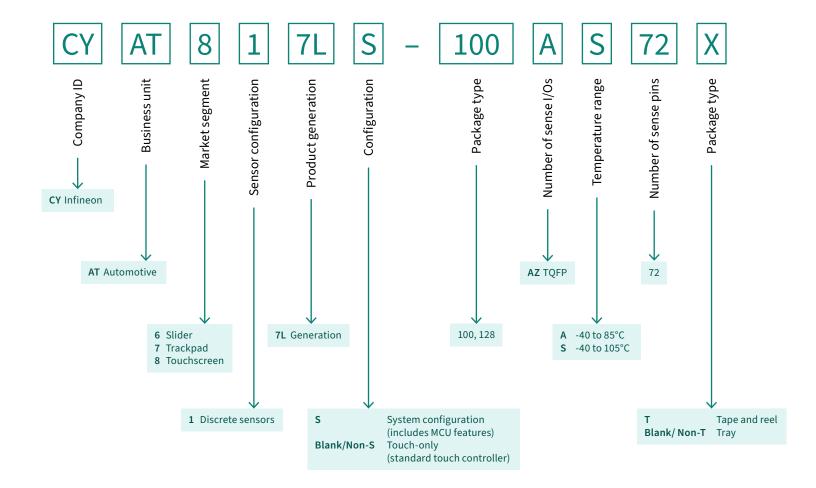
### **Gen7XL – Touch Controller with advanced features**

Product type/ partnumber	Number of Pins	Number of Fingers	Hover	Force Touch	CapSense Buttons	Low-power Wake-up Button	Slider	Haptic	Acoustic	Secondary SCB (Touch Data)	CAN	Proximity	Crypto	Gesture Touchscreen	Gesture Slider	Н,О	Package
TSG7_XL	1	ı	ı			ı	ı	ı		ı	1			1		ı	
CYAT817AZS61-3A002	61	10	•	•	-	-	-	-	-	-	-	-	-	-	-	•	100-TQFP
CYAT817AZS61-3A202	61	10	•	•	-	-	-	•	-	-	-	-	-			•	100-TQFP
CYAT817AZS61-22002	61	10	-	-	-	-	-	-	-	-	-	-	-	-	_	•	100-TQFP
CYAT817AZA72-3BFBA	72	10	•	•	•	•	•	•	•	•	-	•	•	•	-	•	100-TQFP
CYAT817AZS72-32002	72	10	•	-	-	-	-	-	-	_	-	-	-	-	-	•	100-TQFP
CYAT817AZS72-33002	72	10	•		•	-	-	-	-	-	-	-	-	-	-	•	100-TQFP
CYAT817AZS72-3B002	72	10	•	•	•	-	-	_	_	_	-	-	_	-	-	•	100-TQFP
CYAT817AZS72-3B202	72	10	•	•	•	-	-	•	-	-	-	-	_	-	-	•	100-TQFP
CYAT817AZS72-3BFBA	72	10	•	•	•	•	•	•	•	•	-	•	•	•	-	•	100-TQFP
CYAT817AZS72-22002	72	10	_	_	_	_	_	_	-	_	_	-	_	-	-	•	100-TQFP
CYAT817AZA77-5BFBA	77	10	•	•	•	•	•	•	•	•	_	•	•	•	-	•	128-TQFP
CYAT817AZS77-5A002	77	10	•	•	-	-	-	-	-	-	-	-	-	-	-	•	128-TQFP
CYAT817AZS77-5A202	77	10	•	•	_	_	-	•	_	-	_	-	_	_	-	•	128-TQFP
CYAT817AZS77-5BFBA	77	10	•	•	•	•	•	•	•	•	-	•	•	•	-	•	128-TQFP
CYAT817AZS77-520DA	77	10	•	_	_	_	_	_	_	•	_	_	•	•	-	•	128-TQFP
CYAT817AZS77-53C02	77	10	•	-	•	•	•	-	-	-	-	-	-	-	-	•	128-TQFP
CYAT817AZS77-42002	77	10	-	_	-	-	_	-	-	_	-	-	-	-	-	•	128-TQFP
CYAT817AZA88-5BFBA	88	10	•	•	•	•	•	•	•	•	-	•	•	•	-	•	128-TQFP
CYAT817AZA88-53002	88	10	•	-	•	_	-	-	-	_	-	-	-	_	-	•	128-TQFP

### **Gen7XL – Touch Controller with advanced features**

Product type/ partnumber	Number of Pins	Number of Fingers	Hover	Force Touch	Cap Sense Buttons	Low-power Wake-up Button	Slider	Haptic	Acoustic	Secondary SCB (Touch Data)	CAN	Proximity	Crypto	Gesture Touchscreen	Gesture Slider	H <sub>2</sub> O	Package
TSG7_XL				l					l						l	l	
CYAT817AZA88-5B002	88	10	•	•	•	-	-	-	-	-	-		-	-	-	•	128-TQFP
CYAT817AZA88-5B202	88	10	•	•	•	-	-	•	-	-	-	-	-	-	-	•	128-TQFP
CYAT817AZS88-5BFBA	88	10	•	•	•	•	•	•	•	•		•	•	•		•	128-TQFP
CYAT817AZS88-52002	88	10	•	-	-	-	-	-	-	_	-	-	_	-	-	•	128-TQFP
CYAT817AZA88-42002	88	10	-	_	-	_	-	-	_	_	-	-	_	-	-	•	128-TQFP
CYAT817AZS88-42002	88	10	_	_	-	-	_	-	_	_	-	-	_	_	_	•	128-TQFP
CYAT817AZA98-42002	98	10	_	_	-	-	_	-	_	_	-	-	_	_	_	•	128-TQFP
CYAT817AZA98-5BFBA	103	10	•	•	•	•	•	•	•	•		•	•	•		•	128-TQFP
CYAT817AZA98-53002	103	10	•	-	•	_	-	-	_	_	-	-	_	-	_	•	128-TQFP
CYAT817AZA98-5B002	103	10	•	•	•	-	-	-	_	_	-	-	-	-	-	•	128-TQFP
CYAT817AZA98-5B202	103	10	•	•	•	-	_	•	_	-	-	-	_	_	-	•	128-TQFP
CYAT817AZS98-42002	103	10	-	-	-	-	-	-	-	-	-	-	-	-	-	•	128-TQFP
CYAT817AZS98-523DA	103	10	•	_	-	-	_	•	•	•	•	-	•	•	-	•	128-TQFP
CYAT817AZS98-5BFBA	103	10	•	•	•	•	•	•	•	•		•	•	•	-	•	128-TQFP
CYAT817AZS98-5BFFE	103	10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	128-TQFP

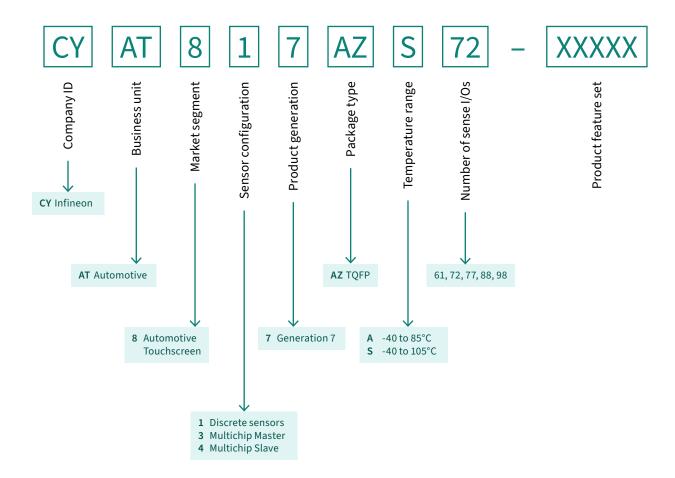
#### **Gen7L – Touch + MCU features**



### **Gen7L - Touch + MCU features**

Product type/ partnumber	Number of sense pins	Multitouch	Touch only	Touch+ MCU functions	No. of GPIOs	Package
TSG7_L						
CYAT817L-100AA72	72	•	•	-	13	100-TQFP
CYAT817L-100AS72	72	•	•	-	13	100-TQFP
CYAT817LS-100AA72	72	•	_	•	13	100-TQFP
CYAT817LS-100AS72	72	•		•	13	100-TQFP
CYAT817L-128AA72	72	•	•	-	29	128-TQFP
CYAT817L-128AS72	72	•	•	-	29	128-TQFP
CYAT817LS-128AA72	72	•	-	•	29	128-TQFP
CYAT817LS-128AS72	72	•	-	•	29	128-TQFP

## Gen7XL - Multi-chip

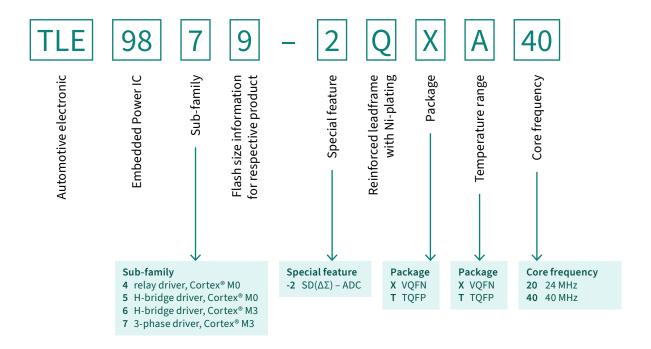


## Gen7XL – Multi-chip

Product type/ partnumber	Number of Pins	Multitouch	Glove	Н20	Package
TSG7_XL MC					
CYAT837AZA98-42002	98	•	•	•	128-pin TQFP
CYAT837AZS98-42002	98	•	•	•	128-pin TQFP
CYAT847AZA98-42002	98	•	•	•	128-pin TQFP
CYAT847AZS98-42002	98	•	•	•	128-pin TQFP
CYAT837AZA88-42002	88	•	•	•	128-pin TQFP
CYAT837AZS88-42002	88	•	•	•	128-pin TQFP
CYAT847AZA88-42002	88	•	•	•	128-pin TQFP
CYAT847AZS88-42002	88	•	•	•	128-pin TQFP
CYAT837AZA77-42002	77	•	•	•	128-pin TQFP
CYAT837AZS77-42002	77	•	•	•	128-pin TQFP
CYAT847AZA77-42002	77	•	•	•	128-pin TQFP
CYAT847AZS77-42002	77	•	•	•	128-pin TQFP
CYAT847AZA72-22002	72	•	•	•	100-pin TQFP
CYAT847AZS72-22002	72	•	•	•	100-pin TQFP
CYAT847AZA61-22002	61	•	•	•	100-pin TQFP
CYAT847AZS61-22002	61	•	•	•	100-pin TQFP

# **PSoC™ Fingerprint FPG1**

Product type/ partnumber	Active Imaging Area	Resolution	CPU	Firmware	Communication Interface	Encryption	Encrytion Mode	Pacakge Typ e	Package Size	Au tomotive Qualification	Operating Temperature
CYFP10020A00	8 x 8 mm	340 dpi	Cortex®-M0	Supplied by Infineon	SPI slave bit rates up to 7.8 Mbps	256-bit AES	ECB, CBC	BGA-73	8.87x9.26x0.70 mm	AEC-Q100	Automotive AECQ-Q100: -40 to +85°C
CYFP10020S00	8 x 8 mm	340 dpi	Cortex®-M0	Supplied by Infineon	SPI slave bit rates up to 7.8 Mbps	256-bit AES	ECB, CBC	BGA-73	8.87x9.26x0.70 mm	AEC-Q100	Automotive AECQ-Q100: -40 to +105°C



### Selection table – Embedded Power ICs for Motor Control

Criteria	TLE984x	ТLE9845QX	TLE9850/1QX(W)	TLE985x	TLE986x	TLE987x
Controller		Arm® Co	rtex®-M0		Arm <sup>®</sup> Co	ortex®-M3
Core frequency	25/40 MHz		40 MHz		24/40	0 MHz
Flash size	36-64 KB	48 KB	64 KB	48-96 KB	36–2	56 KB
Driver stage	Relay	H-br	ridge	Half-b	oridge	B6-bridge
	Relay	PN FET	NN FET	N F	ET	N FET
High-voltage monitor inputs	4 – 5	5		4		1
Junction temperature levels	150°C	150°C	175°C	150°C/175°C	150°C	/175°C
Package	VQFN	-48-31	VQFN-48-29	VQFN-48-29 VQFN-48-31	VQFN	-48-10 -48-29 -48-31
Applications	Window lift Sunroof	Auxiliary w HVAC I	ooling fan vater pump blower pump	Window lift Sunroof Wiper Power lift gate	Oil/water/ HVAC	ooling fan /fuel pump blower r tools

	Mai ket				Core		Syste	em			e- ug			Memory								Driv	er cir	cuits		Anal	og			Time	er							
Product type/partnumber	e e				type	Core frequency [MHz]						tage [V]	Operating temperature range TA [°C]			e]		EEPROM emulationin flash [KByte]	otection	Fast LIN BSL bootloader	s clock [MHz]	brid with	SFET I Ige dr 1 dou ge cha 1p	iver ble	switches	witches	oit ADC	tADC	Operational amplifier									
Product ty	Automotive	Consumer	Package	GPIOs	Processortype	Core frequ	ERU	DMA	Watchdog	Real-Time Clock	JTAG, Trace	Supply voltage [V]	Operating range TA [°C]	Flash	ECC	RAM [kByte]	Cache	EEPROM e [kByte]	Data/IP protection	Fast LIN B	Peripherals	3 phase	2 phase	1 phase	High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bit ADC channels	Operation	ΔΣ ADC	9000	GPT12	Timer 2/21	IImer 3 SPI	Dual SPI	Quad SPI	UAKI/SCI IIC/I²C	IIS/I²S LIN
Relay Driver IC																			'																			
TLE9842QX	• -	-   -   V	/QFN-48	10	Cortex® M0	25	-	-	•	•	•	-	5.5 to 28	-40 to 150	36 kByte	•	2 kByte	-	4 kByte	•	selec- table	-	-	-	•	••	12 ch	7 ch	-	-	3 ch	•	• -	-   •	-	- •	• -	- •
TLE9842-2QX	• -	-	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	40 kByte	•	2 kByte	-	4 kByte	•	selec- table	-	-	-	• •	••	13 ch	7 ch	-	-	3 ch	•	• -	- •	-	- 4	-	- •
TLE9843QX	• -	-   -   V	/QFN-48	10	Cortex® M0	25	-	-	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	-	-	•	••	12 ch	7 ch	-		3 ch	•	• -	- •	-	- (	-	- •
TLE9843-2QX	• -	-   -   V	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	52 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	-	-	••	••	13 ch	7 ch	-	-	3 ch	•	• -	- •	-	- (	-	- •
TLE9844QX	•	-   -   V	/QFN-48	10	Cortex® M0	25	-	-	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	-	-	•	••	12 ch	7 ch	-	-	3 ch	•	• -	- •	-	- •	-	- •
TLE9844-2QX	• -	-	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	-	-	••	••	13 ch	7 ch	-	-	3 ch	•	• -	- •	-	- •	• -	- •
Relay Driver IC	С																																					
TLE9845QX	• -	-   -   V	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	-	-	••	••	13 ch	7 ch	-	-	3 ch	•	• -	- •	-	- (	• -	- •
TLE9850QX	• -	V	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	-	selec- table	-	-	•	•	-	12 ch	9 ch	•	-	3 ch	•	• -	-	-	- •	-	- •
TLE9851QXW	• -	-	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 175	64 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	-	•	•	-	12 ch	9 ch	•	-	3 ch	•	• -	-	-	- •	-	- •
Relay Driver IC	C																																					
TLE9852QX	• -	-   -   V	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	•	-	•	-	11 ch	9 ch	-	-	3 ch	•	• -	-   •	-	- •	• -	- •
TLE9853QX	• -	-   -   V	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	•	-	•	-	12 ch	9 ch	•	-	3 ch	•	• -	- •	-	- •	-	- •
TLE9854QX	• -	V	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	•	-	•	-	12 ch	9 ch	•	-	3 ch	•	• -	- •	-	- 1	• -	- •
TLE9854QXW	• -	-	/QFN-48	10	Cortex® M0	40	-	-	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	4 kByte	-	4 kByte	•	selec- table	-	•	-	•	_	12 ch	9 ch	•	-	3 ch	•	• -	- •	_	- •	-	- •

	Mai				Core		Sys	tem			De- bug			Memory								Driv	er cir	cuits		Analo	og			Time	er							
Product type/partnumber	, e				type	Core frequency [MHz]					ه ا	Itage [V]	Operating temperature range TA [°C]			[ə:		EEPROM emulationin flash [kByte]	otection	Fast LIN BSL bootloader	s clock [MHz]	brid with	SFET I ge dr 1 doul ge cha 1p	iver ble	switches	witches	oit ADC	8-bit ADC iels	Operational amplifier									
Product ty	Automotive	Consumer	Package	GPIOs	Processor	Core frequ	ERU	DМА	Watchdog	Real-Time Clock	SWD, SPD	Supply voltage	Operating range TA [°C]	Flash	ECC	RAM [kByte]	Cache	EEPROM e [kByte]	Data/IP protection	Fast LIN B	Peripherals	3 phase	2 phase	1 phase	High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bi channels	Operation	ΔΣ ΑDC	SCU6	GPT12	Timer 2/21	SPI	Dual SPI	Quad SPI UART/SCI	IIC/I²C	IIS/I²S LIN
H-Bridge Driv							'												'																			
TLE9855QX	• -	-   -	VQFN-48	10	Cortex® M0	40	-	-	•	•	• •	-	5.5 to 28	-40 to 150	96 kByte	•	4 kByte	-	4 kByte	•	selec- table	•	-	-	•	-	12 ch	9 ch	•	-	3 ch	•	• -	•	-	- •	-	-
TLE- 9861QXA20	• -	-   -	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	-	5.5 to 28	-40 to 150	36 kByte	•	3 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	-	-	-	-   -
TLE- 9862QXA40	• -	-   -	VQFN-48	10	Cortex® M4	40	-	13 ch	•	•	•	-	5.5 to 28	-40 to 150	256 kByte	•	8 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	-	-	-	- •
TLE- 9867QXA20	• -	-   -	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	6 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	-	-	-	- •
TLE- 9867QXA40	• -	-   -	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	6 kByte	-	4 kByte	•	selec- table	•	_	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	-	- •	-	- •
TLE- 9867QXW20	• -	-   -	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	-	5.5 to 28	-40 to 175	64 kByte	•	6 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	-	-	-	- •
TLE9868Q- XB20	• -	-   -	VQFN-48	10	Cortex® M3	20	-	-	•	•	- •	-	5.5 to 28	-40 to 150	128 kByte	•	4 kByte	-	5 kByte	•	selec- table	•	-	-	-	-	6 ch	10 ch	-	••	3 ch	•	•	•	-	-	-	- •
TLE- 9869QXA20	• -	-   -	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	-	5.5 to 28	-40 to 150	128 kByte	•	6 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	-	- •	-	- •
3-Phase Bridg	e Dri	ver I0	2																																			
TLE- 9871QXA20	• -	-   -	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	-	5.5 to 28	-40 to 150	36 kByte	•	3 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	-	- •	-	-   -
TLE- 9872QTW40	• -	-   -	TQFP-48	10	Cortex® M3	40	-	13 ch	•	•	•	-	5.5 to 28	-40 to 175	256 kByte	•	8 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	-	- •	-	- •
TLE- 9872QXA40	• -	-   -	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	-	5.5 to 28	-40 to 150	256 kByte	•	8 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	-	-	-	- •
TLE9872- 2QXA40	• -		VQFN-48	10	Cortex® M3	40	-	14 ch	•	•	•	-	5.5 to 28	-40 to 150	256 kByte	•	8 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	9 ch	•	• •	3 ch	•	• •	•	-	- •	-	-
TLE- 9873QXW40	• -		VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	-	5.5 to 28	-40 to 175	48 kByte	•	3 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	-	-	-	-
TLE- 9877QXA20	•	-   -	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	6 kByte	-	4 kByte	•	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•		- •	-	- •

	Mar- kets			Core	S	ystem			De- bug			Memory							Driv	ver ciı	rcuits		Analo	og			Time	er							
Product type/partnumber				type	ıcy [MHz]			Clock		ge [V]	mperature				emulationin flash	ection	bootloader	clock [MHz]	bric wit	SFET dge di h dou ge cha np	river ble	switches	switches	ADC	\DC	amplifier									
Product type	Automotive Industrial	Consumer	GPIOs	sor	Core frequency	рма	Watchdog	ime	SWD, SPD JTAG, Trace	Supply voltag	Operating temperature range TA [°C]	Flash	ECC	RAM [kByte]		[kByte] Data/IP protection	Fast LIN BSL bootloader	Peripherals c	3 phase	2 phase	1 phase	High side sw	Low side sw	No. of 10-bit/ channels	No. of 8-bit ADC channels	Operational amplifier	ΔΣ ADC	SCU6		Timer 2/21	SPI	DualSPI	Quad SPI UART/SCI	IIC/I³C	IIS/I²S LIN
3-Phase Bridg	ge Driv	er IC																																	
TLE- 9877QTW40	• -	- TQFP-48	10	Cortex® M3	40 -	13 ch	•	•	• •	-	5.5 to 28	-40 to 175	64 kByte	● 6 kB	yte -	4 kBy	te •	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	-	-	-	- •
TLE- 9877QXA40	• -	- VQFN-48	10	Cortex® M3	40 -	13 ch	•	•	• •	-	5.5 to 28	-40 to 150	64 kByte	• 6 kB	/te -	4 kBy	te •	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	-	- •	-	- •
TLE- 9877QXW40	• -	- VQFN-48	10	Cortex® M3	40 -	13 ch	•	•	• •	-	5.5 to 28	-40 to 175	64 kByte	• 6 kB	yte –	4 kBy	te •	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	-	- •	-	- •
TLE- 9879QTW40	• -	- TQFP-48	10	Cortex® M3	40 -	13 ch	•	•	• •	-	5.5 to 28	-40 to 175	128 kByte	• 6 kB	yte -	4 kBy	te •	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	• •	-	- •	-	- •
TLE- 9879QXA20	• -	- VQFN-48	10	Cortex® M3	24 -	13 ch	•	•	• •	-	5.5 to 28	-40 to 150	128 kByte	• 6 kB	yte –	4 kBy	te •	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	• •	-	-	-	- •
TLE- 9879QXA40	• -	- VQFN-48	10	Cortex® M3	40 -	13 ch	•	•	• •	-	5.5 to 28	-40 to 150	128 kByte	• 6 kB	yte -	4 kBy	te •	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	• •	-	- •	-	- •
TLE9879- 2QXA40	• -	- VQFN-48	10	Cortex® M3	40 -	14 ch	•	•	• •	-	5.5 to 28	-40 to 150	128 kByte	• 6 kB	yte -	4 kBy	te •	selec- table	•	-	-	-	-	7 ch	9 ch	•	••	3 ch	•	• •		-	- •	-	- •
TLE- 9879QXW40	• -	- VQFN-48	10	Cortex® M3	40 -	13 ch	•	•	• •	-	5.5 to 28	-40 to 175	128 kByte	• 6 kB	yte -	- 4 kBy	te •	selec- table	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	• •	-	- •	-	- •

# Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperatureranges	Package	Max clock frequency[MHz]	Programmemory[kByte]	SRAM(incl. cache)[KByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communicationinterfaces	Additional features /remarks
XC2000 for automotive applicatio	ns																
XC2200 for body applications																	
U-series			l						l						l e		
XC2220U	•	-	-	F, K	VQFN-48	40	32-64	8	MAC	33	10	17	•	-	-	1x USIC	-
L-series																	
XC2224l	•	-	-	F, K	VQFN-48	66	96-160	12	MAC	33	10	23	•	2	-	2x USIC	-
XC2234l	•	-	-	F, K	LQFP-64	66	96–160	12	MAC	49	19	24	•	2	-	2x USIC	CuWb
N-series																	
XC2238N	•	-	-	F, K	LQFP-64	80	192-320	34	MAC	38	9	22	•	6	-	4x USIC	CuWb
XC2268N	•	-	-	F, K	LQFP-100	80	192-320	34	MAC	76	16	32	•	6	-	6x USIC	CuWb
M-series			l	l									l				
XC2237M	•	-	-	F, K	LQFP-64	80	448-832	50	MAC	38	9	22	•	6	-	6x USIC	-
XC2267M	•	-	-	F, K	LQFP-100	80	448-832	50	MAC	76	16	32	•	6	-	8x USIC	CuWb
XC2287M	•	-	-	F, K	LQFP-144	80	448-832	50	MAC	119	24	44	•	6	-	8x USIC	CuWb
I-series													ı				
XC2269I	•	_	-	F, K	LQFP-100	128	1088	90	MAC	76	19	32	•	6	_	10x USIC, 2xFlexRay	CuWb
XC2289I	•	-	-	F, K	LQFP-144	128	1088	90	MAC	118	28	44	•	6	-	10x USIC, 2x FlexRay	CuWb
H-series																	
XC2289H	•	-	-	F, K	LQFP-144	100	1600	138	MAC	119	24	44	•	4	-	10x USIC, 2x FlexRay	-
XC2299H	•	_	_	F, K	LQFP-176	100	1600	138	MAC	150	30	66	•	6	_	10x USIC, 2x FlexRay	

# Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperatureranges	Package	Max clock frequency[MHz]	Programmemory[kByte]	SRAM(incl. cache)[KByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communicationinterfaces	Additional features /remarks
XC2300 for safety applications																	
A-series																	
XC2336A	•	-	-	F, K	LQFP-64	40	448-832	50	MAC	38	9	24	•	2	-	4x USIC	-
XC2365A	•	-	-	F, K	LQFP-100	80	448-832	50	MAC	76	16	24	•	3	-	6x USIC	CuWb
XC2387A	•	-	_	F, K	LQFP-144	80	448-832	50	MAC	119	24	32	•	3	-	6x USIC	CuWb
B-series																	
XC2336B	•	-	_	F, K	LQFP-64	80	320	34	MAC	38	9	20	•	2	-	4x USIC	CuWb
XC2365B	•	-	_	F, K	LQFP-100	80	192-320	18-34	MAC	76	16	24	•	3	_	6x USIC	CuWb
C-series																	
XC2388C	•	-	-	F, K	LQFP-144	100	1088-1600	138	MAC	119	24	32	•	4	-	10x USIC, 2x FlexRay	_
D-series																	
XC2321D	•	-	_	F, K	VQFN-48	80	96-160	12	MAC	33	10	23	•	2	_	2x USIC	-
XC2331D	•	-	-	F, K	LQFP-64	80	96-160	12	MAC	49	19	24	•	2	-	2x USIC	CuWb
E-series																	
XC2368E	•	-	-	F, K	LQFP-100	128	576–1088	90	MAC	75	16	32	•	3	-	6x USIC, 2x FlexRay	CuWb
XC2388E	•	-	-	F, K	LQFP-144	128	576-1088	90	MAC	118	24	32	•	3	_	8x USIC, 2x FlexRay	CuWb
S-series																	
XC2320S	•	-	-	F, K	VQFN-48	66	32-64	8	MAC	33	10	17	•	-	-	1x USIC	-

# Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperatureranges	Package	Max clock frequency[MHz]	Programmemory[kByte]	SRAM(incl. cache)[KByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communicationinterfaces	Additional features /remarks
XC2700 for powertrain applicatio	ns																
2-series																	
XC2722X	•	-	-	К	VQFN-48	40	64	8	MAC	33	10	17	•	_	-	2x USIC	-
3-series																	
XC2723X	•	-	-	К	VQFN-48	66	160	12	MAC	33	10	23	•	2	-	2x USIC	-
XC2733X	•	-	_	К	LQFP-64	66	160	12	MAC	49	19	24	•	2	_	2x USIC	CuWb
4-series																	
XC2734X	•	-	-	К	LQFP-64	80	320	34	MAC	38	9	20	•	2	_	4x USIC	CuWb
XC2764X	•	-	-	К	LQFP-100	80	320	34	MAC	76	16	24	•	2	-	4x USIC	CuWb
5-series																	
XC2765X	•	-	-	К	LQFP-100	80	576-832	50	MAC	76	16	37	•	2	-	4x USIC	CuWb
XC2785X	•	-	_	К	LQFP-144	80	576-832	50	MAC	119	24	44	•	2	_	4x USIC	CuWb
7-series																	
XC2787X	•	-	-	К	LQFP-144	100	1600	138	MAC	119	24	60	•	2	_	6x USIC	-
8-series																	
XC2768X	•	-	-	К	LQFP-100	128	1088	90	MAC	76	19	32	•	2	-	10x USIC, 2x FlexRay	CuWb
XC2788X	•	-	-	К	LQFP-144	128	1088	90	MAC	118	28	44	•	2	-	10x USIC, 2x FlexRay	CuWb
XC2320S	•	-	-	F, K	VQFN-48	66	32-64	8	MAC	33	10	17	•	-	-	1x USIC	-

**MAC** = Multiply-Accumulate-Unit (DSP)  $\mathbf{F} = -40/+85 \,^{\circ}\text{C}$ USIC = ASC, SPI,  $I^2C$ ,  $I^2S$ 

K = -40/+125 °C

# **Legacy: 16-bit Industrial Microcontroller**

Product type	Automotive	Industrial	Consumer	Temperatureranges	Package	Max clock frequency[MHz]	Programmemory[kByte]	SRAM(incl. cache)[KByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed I/O channels(PWM, capture)	External bus interface	CAN nodes	Ethernet	Communicationinterfaces	Additional features /remarks
XE166 real time signal controller	for industri	al and mult	i market														
Classic series - alpha line																	
XE164x	-	•	•	F, K	LQFP-100	66/80	768	24-82	MAC	75	11–16	30-37	•	0-4	-	4–6x USIC	-
XE167x	-	•	•	F, K	LQFP-144	66/80	768	28-82	MAC	118	16-24	30-44	•	0–5	-	4–6x USIC	-
U series - compact line																	
XE161x	-	•	•	F, K	VQFN-48	40/66	64	8	MAC	33	10	15	-	-	-	2x USIC	-
L series - econo line																	
XE161x	-	•	•	F, K	VQFN-48	66/80	128-160	12	MAC	33	10	21	_	1	-	4x USIC	-
XE162x	-	•	•	F, K	LQFP-64	66/80	96–160	12	MAC	48	19	21	-	2	-	4x USIC	CuWb
N series - value line																	
XE162xN	-	•	•	F, K	LQFP-64	80	128-320	18-34	MAC	40	9	23	•	0–2	-	6x USIC	CuWb
XE164xN	-	•	•	F, K	LQFP-100	-	128-320	18-34	MAC	75	11–16	30	•	0–2	-	4–6x USIC	CuWb
M series - base line			ı											ı	l		
XE162xM	-	•	•	F, K	LQFP-64	80	384–576	24–50	MAC	40	9	23	-	0-2	-	6x USIC	-
XE164xM	-	•	•	F, K	LQFP-100	80	384–576	26–50	MAC	76	11–16	30-37	•	0-4	-	4–6x USIC	CuWb
XE167xM	-	•	•	F, K	LQFP-144	80	384–576	34–50	MAC	119	16-24	30-44	•	0–6	-	4–8x USIC	CuWb
H series - high line																	
XE167xH	-	•	•	F, K	LQFP-144	100	1.024-1.600	138	MAC	98-118	24	60	•	6	-	10x USIC	-
XE169xH	-	•	•	F, K	LQFP-176	100	1.024-1.600	138	MAC	98-118	30	60	•	6	-	10x USIC	-

MAC = Multiply-Accumulate-Unit (DSP)  $\mathbf{F} = -40/+85 \,^{\circ}\text{C}$ USIC = ASC, SPI,  $I^2C$ ,  $I^2S$ 

K = -40/+125 °C

# **Legacy: 8-bit Microcontroller**

Product type	Automotive	Industrial	Consumer	Temperatureranges	Package	Max clock frequency[MHz]	Programmemory[kByte]	SRAM(incl. cache)[KByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed I/O channels(PWM, capture)	External bus interface	CAN nodes	Ethernet	Communicationinterfaces	Additional features /remarks
C500 family																	
C505CA-4EM /-lM	•	•	•	F, B, K	MQFP-44	20	0	1.25	-	34	8	4	-	1	-	1x USART	OTP, ROM less
C515C-8EM	•	•	•	F, B, K	MQFP-80	10	64	2.25	-	49	8	4	_	1	-	1x USART, 1x SSC	OTP
XC800 family																	
XC82x-series																	
XC822MT	•	•	•	F, K	TSSOP-16	24	2-4	0.5	-	17	4	4	-	-	-	1x UART, 1x SSC, lIN	-
XC83x-series																	
XC836MT	•	•	•	F, K, L	TSSOP-28	24	4-8	0.5	VC	25	8	4	-	-	_	1x UART, 1x SSC, lIN	-
XC86x-series																	
XC866	•	•	•	F, K, A, L	TSSOP-38	26.67	4–16	0.75	-	27	8	4	_	-	_	1x UART, 1x SSC	-
XC866l	•	•	•	F, K, A, L	TSSOP-38	26.67	4–16	0.75	-	27	8	4	-	-	-	1x UART, IIN BSI, 1x SSC	-
XC87x-series																	
XC878	•	•	•	F, K, X	IQFP-64	27	52-64	3	[VC]	48	8	10	•	[2]	-	2x UART, 1x SSC, [IIN]	-
XC88x-series																	
XC886	•	•	•	F, K, A, L	TQFP-48	24	24-32	1.75	[VC]	34	8	4	_	[2]	-	2x UART, [IIN BSI], [1x SSC]	-
XC888	•	•	•	F, K, [A], [L]	TQFP-64	24	24-32	1.74	[VC]	48	8	4	-	[2]	_	2x UART, [IIN BSI], [1x SSC]	-
CIC family (companion IC)																	
CIC61508	•	•	-	K	TSSOP-38	26.67	-	0.25	-	_	-	_	-	_	-	Safety signature watchdog	Flash

[ ] = Optional features

MDU = Multiply Divide Unit

LIN BSL = LIN Bootstrap Loader

SSC = Synchronous Serial Channel

VC = Vector Computer (MDU + CORDIC)

A = -40/+140 °C F = -40/+85 °C K = -40/+125 °C L = -40/+150 °C X = -40/+105 °C

# **Voltage regulators for Microcontrollers**

Microcontroller family	Output voltage [V]	Output current (max) [mA]	Safety support	Voltage regulator	Automotive	Industrial
Legacy 8/16-bit Microcontroller	S					
XC8xxx	3.3/5	30	-	TLE4296-2G; TLE4295G	•	-
XC8xxx	3.3/5	30	-	TLE4296-2G; TLE4295G	•	-
XC8xxx	5	300	-	TLS835B2EL; TLS835D2EL	•	-
XC8xxx	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XC8xxx	3.3/5	400	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
XC8xxx	3.3/5	50	-	TLS810B1EJ; TLS810A1LD	•	-
XC8xxx	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XE166/XC2000	3.3/5	400	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
XE166/XC2001	5	300	-	TLS835B2EL; TLS835D2EL	•	-
XE166/XC2002	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XE166/XC2003	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
32-bit XMC™ Arm® Microcontrol	ler					
XMC1000 series	3.3/5	300	-	TLS835B2EL; TLS835D2EL	•	-
XMC1000 series	3.3	150	-	TLE4266-2G; TLS820D3EL	•	-
XMC1000 series	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XMC1000 series	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XMC1000 series	3.3/5	400	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
XMC4000 series	3.3/5	500	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
XMC4000 series	3.3/5	300	-	TLS835B2EL; TLS835D2EL	•	-
32-bit AURIX™ TriCore™ Microco	ontroller					
AURIX TC21x/22x/23x	3.3	150/500	ASIL-D	TLF35584	•	-
AURIX TC21x/22x/23x	3.3	150/500	QM/ASIL-B	TLF502x1/TLS4120	•	-
AURIX TC21x/22x/23x	3.3	150/500	QM/ASIL-B	TLE9461/TLE9471	•	-
AURIX TC26x/27x/29x	3.3/5	250/400/500	ASIL-D	TLF35584	•	-
AURIX TC26x	3.3/5	250/400/500	QM/ASIL-B	TLE926xB/TLE9471	•	-
AURIX TC27x/29x	3.3/5	500	QM/ASIL-B	TLE9471	•	-

# **Voltage regulators for Microcontrollers**

Microcontroller family	Output voltage [V]	Output current (max) [mA]	Safety support	Voltage regulator	Automotive	Industrial
32-bit AURIX™ TriCore™ Microco	ntroller					
AURIX TC33x	3.3/5	250/400/500	QM/ASIL-B	TLE926xB/TLE9471	•	-
AURIX TC33x A	3.3/5	-	QM/ASIL-B	TLF30681	•	-
AURIX TC35x A	3.3/5	750	ASIL-B	TLF30682	•	-
AURIX TC35x A	3.3/5	750	QM/ASIL-B	TLE927x/TLE9278B	•	-
AURIX TC36x/37x	3.3/5	500	QM/ASIL-B	TLE9471	•	-
AURIX TC37x	3.3/5	500	ASIL-D	TLF35584	•	-
AURIX TC38x/TC39x	3.3/5	750	ASIL-D	TLF35584 & TLF11251	•	-
AURIX TC38x/TC39x	3.3/5	750	QM/ASIL-B	TLE927x/TLE9278B	•	-
AURIX TC2xx & TC3xx	3.3/5	1000	-	TLS4120D0EPV	•	-
AURIX TC2xx & TC3xx	3.3/5	1800	-	TLS4120D0EPV	•	-
AURIX TC2xx & TC3xx	3.3/5	2300	-	TLS4125D0EPV	•	-
AURIX TC2xx & TC3xx	3.3/5	400	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
AURIX TC2xx & TC3xx	3.3/5	1000	-	TLS4120D0EPV	•	-

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