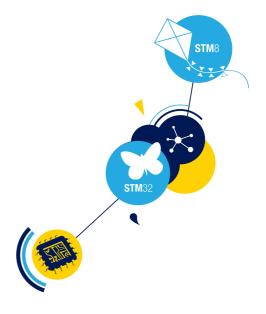


8- and 32-bit microcontrollers

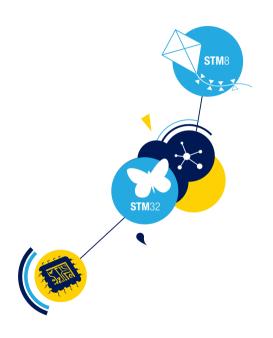




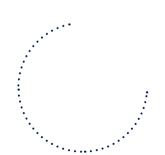
Product selection guide



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STM32 - 32-bit microcontroller families

STM32

STM32 FO SERIES - ARM CORTEXTM-MO ENTRY-LEVEL MCUS

				Timer 1	unctions						Ser	ial interl	ace				Supply (lo		Maniana
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART	CEC	USB FS	CAN 2.0B	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
						STM3	2F030 Valu	e line -	48 MH	z CPU									
STM32F030F4	16	4	TSS0P20	4x16-bit/-		1x12-bit		15	1		1	1				2.4 to 3.6	3.4	250	-40 to +85
STM32F030C6	32	4	LQFP48	4x16-bit/-		1x12-bit		39	1		1	1				2.4 to 3.6	3.4	250	-40 to +85
STM32F030K6	32	4	LQFP32	4x16-bit/-	2 x WDG, RTC, 24-bit	1x12-bit		26	1		1	1				2.4 to 3.6	3.4	250	-40 to +85
STM32F030C8	64	8	LQFP48	6x16-bit/-	downcounter	1x12-bit		39	2		2	2				2.4 to 3.6	3.4	250	-40 to +85
STM32F030R8	64	8	LQFP64	6x16-bit/-		1x12-bit		55	2		2	2				2.4 to 3.6	3.4	250	-40 to +85
						S1	M32F0x1 li	ne - 48	MHz C	PU									
STM32F051C4	16	4	LQFP48	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	39	1	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F051K4	16	4	UFQFPN32	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	27	1	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F051R4	16	4	LQFP64	7x16-bit / 1x32-bit		19x12-bit	1x12-bit	55	1	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F051C6	32	4	LQFP48	7x16-bit / 1x32-bit	2 x WDG, RTC, 24-bit	13x12-bit	1x12-bit	39	1	1	1	2	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F051K6	32	4	UFQFPN32	7x16-bit / 1x32-bit	downcounter	13x12-bit	1x12-bit	27	1	1	1	2	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F051R6	32	4	LQFP64	7x16-bit / 1x32-bit		19x12-bit	1x12-bit	55	1	1	1	2	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F051C8	64	8	LQFP48	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	39	2	1	2	2	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F051K8	64	8	UFQFPN32	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	27	1	1	1	2	1			2.0 to 3.6	1.7	250	-40 to +85

STM32 FO SERIES - ARM CORTEXTM-MO ENTRY-LEVEL MCUS

				Timer f	unctions						Ser	ial interf	ace					current cc)	
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART	CEC	USB FS	CAN 2.0B	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
STM32F051R8	64	8	LQFP64	7x16-bit / 1x32-bit		19x12-bit	1x12-bit	55	2	1	2	2	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F071CB*	128	12	LQFP48	7x16-bit / 1x32-bit	2 x WDG, RTC, 24-bit	13x12-bit	1x12-bit	37	2	1	2	4	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F071RB*	128	12	LQFP64	7x16-bit / 1x32-bit	downcounter	19x12-bit	1x12-bit	51	2	1	2	4	1			2.0 to 3.6	1.7	250	-40 to +85
STM32F071VB*	128	12	LQFP100	9x16-bit / 1x32-bit		19x12-bit	1x12-bit	87	2	1	2	4	1			2.0 to 3.6	1.7	250	-40 to +85
						STM32	F0x2 line -	48 MHz	CPU w	ith USE	3								
STM32F072C8*	64	16	LQFP48	8x16-bit / 1x32-bit		13x12-bit	2x12-bit	37	2	2	2	4	1	1	1	2.0 to 3.6	1.7	250	-40 to +85
STM32F072R8*	64	16	LQFP64	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	51	2	2	2	4	1	1	1	2.0 to 3.6	1.7	250	-40 to +85
STM32F072V8*	64	16	LQFP100	8x16-bit / 1x32-bit	2 x WDG,	19x12-bit	2x12-bit	87	2	2	2	4	1	1	1	2.0 to 3.6	1.7	250	-40 to +85
STM32F072CB*	128	16	LQFP48	8x16-bit / 1x32-bit	RTC, 24-bit downcounter	13x12-bit	2x12-bit	37	2	2	2	4	1	1	1	2.0 to 3.6	1.7	250	-40 to +85
STM32F072RB*	128	16	LQFP64	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	51	2	2	2	4	1	1	1	2.0 to 3.6	1.7	250	-40 to +85
STM32F072VB*	128	16	LQFP100	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	87	2	2	2	4	1	1	1	2.0 to 3.6	1.7	250	-40 to +85

Note

^{*} Available in mass market Week03/2014

STM32 F3 SERIES - ARM CORTEX™-M4 MIXED-SIGNAL MCUS WITH DSP AND FPU

				Timer fun	ctions						Seria	l interfac	е			Supply cur	rent (Icc)	
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC 16-bit / 12-bit	DAC	I/Os	SPI	l ² S	I ² C	USART	USB FS	CAN 2.0B	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
					302/303/31	3 line – 72 M	Hz with 8-KI	oyte C	CM-S	RAM and	1 12-bit <i>l</i>	ADC (5 M	SPS)					
STM32F302CB	128	24	LQFP48	8x16-bit / 1x32-bit		9x12-bit	1x12-bit	37	3		2	3	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F302RB	128	24	LQFP64	8x16-bit / 1x32-bit		16x12-bit	1x12-bit	52	3		2	5	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F302VB	128	24	LQFP100	8x16-bit / 1x32-bit		17x12-bit	1x12-bit	87	3		2	5	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F303CB	128	40	LQFP48	9x16-bit / 1x32-bit		15x12-bit	2x12-bit	37	3	up to	2	3	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F303RB	128	40	LQFP64	9x16-bit / 1x32-bit		22x12-bit	2x12-bit	52	3	2x full duplex	2	5	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F303VB	128	40	LQFP100	9x16-bit / 1x32-bit		39x12-bit	2x12-bit	87	3	I ² S	2	5	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F302CC	256	32	LQFP48	8x16-bit / 1x32-bit	0	9x12-bit	1x12-bit	37	3		2	3	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F302RC	256	32	LQFP64	8x16-bit / 1x32-bit	SysTick, 2 x WDG, BTC	16x12-bit	1x12-bit	52	3		2	5	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F302VC	256	32	LQFP100	8x16-bit / 1x32-bit	RIG	17x12-bit	1x12-bit	87	3		2	5	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F303CC	256	48	LQFP48	9x16-bit / 1x32-bit		15x12-bit	2x12-bit	37	3		2	3	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F303RC	256	48	LQFP64	9x16-bit / 1x32-bit		22x12-bit	2x12-bit	53	3		2	5	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F303VC	256	48	LQFP100	9x16-bit / 1x32-bit		39x12-bit	2x12-bit	87	3	up to 2x full	2	5	1	1	2.0 to 3.6	0.5	390	-40 to +105
STM32F313CC	256	48	LQFP48	9x16-bit / 1x32-bit		14x12-bit	2x12-bit	36	3	duplex I ² S	2	3		1	1.65 to 1.95	5.1	399	-40 to +105
STM32F313RC	256	48	LQFP64	9x16-bit / 1x32-bit		21x12-bit	2x12-bit	51	3		2	5		1	1.65 to 1.95	5.1	399	-40 to +105
STM32F313VC	256	48	LQFP100	9x16-bit / 1x32-bit		38x12-bit	2x12-bit	86	3		2	5		1	1.65 to 1.95	5.1	399	-40 to +105

STM32 F3 SERIES - ARM CORTEX™-M4 MIXED-SIGNAL MCUS WITH DSP AND FPU

				Timer fun	ctions						Seria	l interfac	е			Supply cur	rent (Icc)	
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC 16-bit / 12-bit	DAC	I/Os	SPI	I ² S	I ² C	USART	USB FS	CAN 2.0B	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
					S	TM32F373/38	3 line – 72 l	VIHz w	ith 16	-bit ΣΔ	ADC							
STM32F373C8	64	16	LQFP48	9x16-bit / 2x32-bit		8x16-bit / 9x12-bit	3x12-bit	36	3		2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F373R8	64	16	LQFP64	9x16-bit / 2x32-bit		8x16-bit / 16x12-bit	3x12-bit	52	3		2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F373V8	64	16	LQFP100	9x16-bit / 2x32-bit		21x16-bit / 16x12-bit	3x12-bit	84	3		2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F373CB	128	24	LQFP48	9x16-bit / 2x32-bit		8x16-bit / 9x12-bit	3x12-bit	36	3		2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F373RB	128	24	LQFP64	9x16-bit / 2x32-bit		8x16-bit / 16x12-bit	3x12-bit	52	3		2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F373VB	128	24	LQFP100	9x16-bit / 2x32-bit	SysTick, 2 x WDG,	21x16-bit / 16x12-bit	3x12-bit	84	3	up to 3x half	2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F373CC	256	32	LQFP48	9x16-bit / 2x32-bit	RTC	8x16-bit / 9x12-bit	3x12-bit	36	3	duplex I ² S	2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F373RC	256	32	LQFP64	9x16-bit / 2x32-bit		8x16-bit / 16x12-bit	3x12-bit	52	3		2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F373VC	256	32	LQFP100	9x16-bit / 2x32-bit		21x16-bit / 16x12-bit	3x12-bit	84	3		2	3	1	1	2.0 to 3.6	0.5	420	-40 to +105
STM32F383CC	256	32	LQFP48	9x16-bit / 2x32-bit		7x16-bit / 9x12-bit	3x12-bit	35	3		2	3		1	1.65 to 1.95	5.3	434	-40 to +105
STM32F383RC	256	32	LQFP64 WLCSP66	9x16-bit / 2x32-bit		7x16-bit / 16x12-bit	3x12-bit	51	3		2	3		1	1.65 to 1.95	5.3	434	-40 to +105
STM32F383VC	256	32	LQFP100 UFBGA100	9x16-bit / 2x32-bit		20x16-bit / 16x12-bit	3x12-bit	83	3		2	3		1	1.65 to 1.95	5.3	434	-40 to +105

Notes

⁻ Supply voltage 2.0 to 3.6 V for all devices or 1.8 V +/-8% dedicated sales type

⁻ WLCSP66 package available in 1.8 V +/-8% dedicated sales type only

				Timer f	unctions								Serial in	iterfac	е				Supply (Ic		Manimum
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	SAI	I ² S	I ² C	USART + UART3	USB OTG	CAN 2.0B		Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
				ST	M32F401 line:	USB OTG	(FS), low p	ower (11 μ <i>l</i>	A typ.	in St	ор п	10de) - 84	4 MHz	CPU						
STM32F401CB	128	64	WLCSP49 UFQFPN48	6x16-bit / 2x32-bit		10x12-bit		36	3		2	3	3	1				1.74 to 3.6	1.7	140	-40 to +105
STM32F401RB	128	64	LQFP64	6x16-bit / 2x32-bit		16x12-bit		48	3		2	3	3	1		1		1.8 to 3.6	1.7	140	-40 to +105
STM32F401VB	128	64	LQFP100 UFBGA100	6x16-bit / 2x32-bit	2x WDG, RTC, 24-bit	16x12-bit		79	4		2	3	3	1		1		1.7 ⁴ to 3.6	1.7	140	-40 to +105
STM32F401CC	256	64	WLCSP49 UFQFPN48	6x16-bit / 2x32-bit	downcounter	10x12-bit		36	3		2	3	3	1				1.8 to 3.6	1.7	140	-40 to +105
STM32F401RC	256	64	LQFP64	6x16-bit / 2x32-bit		16x12-bit		48	3		2	3	3	1		1		1.8 to 3.6	1.7	140	-40 to +105
STM32F401VC	256	64	LQFP100 UFBGA100	6x16-bit / 2x32-bit		16x12-bit		79	4		2	3	3	1		1		1.8 to 3.6	1.7	140	-40 to +105
				S	TM32F405/41	5 line: USE	OTG (FS/	HS¹), cı	ypto	/hash	proc	cesso	or² - 168	MHz C	PU						
STM32F4050E	512	192	WLCSP90	12x16-bit / 2x32-bit		13x12-bit	2x12-bit	72	3		2	3	4+2	2	2	1		1.74 to 3.6	2.5	238	-40 to +85
STM32F4050G	1024	192	WLCSP90	12x16-bit / 2x32-bit		13x12-bit	2x12-bit	72	3		2	3	4+2	2	2	1		1.74 to 3.6	2.5	238	-40 to +85
STM32F4150G ²	1024	192	WLCSP90	12x16-bit / 2x32-bit		13x12-bit	2x12-bit	72	3		2	3	4+2	2	2	1		1.74 to 3.6	2.5	238	-40 to +85
STM32F405RG	1024	192	LQFP64	12x16-bit / 2x32-bit	0 WD0	16x12-bit	2x12-bit	51	3		2	3	4+2	2	2	1		1.8 to 3.6	2.5	238	-40 to +105
STM32F415RG ²	1024	192	LQFP64	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit downcounter	16x12-bit	2x12-bit	51	3		2	3	4+2	2	2	1		1.8 to 3.6	2.5	238	-40 to +105
STM32F405VG	1024	192	LQFP100	12x16-bit / 2x32-bit	downcounter	16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1		1.8 to 3.6	2.5	238	-40 to +105
STM32F415VG ²	1024	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1		1.8 to 3.6	2.5	238	-40 to +105
STM32F405ZG	1024	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	2	1		1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F415ZG ²	1024	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	2	1		1.74 to 3.6	2.5	238	-40 to +105

				Timer f	unctions								Serial in	nterfac	е				Supply (Ic		Maximum
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	SAI	I ² S	I ² C	USART + UART3	USB OTG	CAN 2.0B	SDIO	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)
				STM32F	407/417 line:	2x USB OT	G (FS/HS¹)	, came	ra IF,	crypt	o/ha	sh p	rocessor	² - 168	MHz	CPU					
STM32F407IE	512	192	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3		2	3	4+2	2	3	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F417IE ²	512	192	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3		2	3	4+2	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F407VE	512	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F417VE ²	512	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F407ZE	512	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F417ZE ²	512	192	LQFP144	12x16-bit / 2x32-bit	2x WDG,	24x12-bit	2x12-bit	114	3		2	3	4+2	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F407IG	1024	192	UFBGA176 LQFP176	12x16-bit / 2x32-bit	RTC, 24-bit downcounter	24x12-bit	2x12-bit	140	3		2	3	4+2	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F417IG ²	1024	192	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3		2	3	4+2	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F407VG	1024	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F417VG ²	1024	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F407ZG	1024	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	3	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F417ZG ²	1024	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	3	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105

				Timer f	unctions								Serial in	nterfac	е				Supply (Ic		Maximum
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	SAI	I ² S	I ² C	USART + UART3	USB OTG	CAN 2.0B	SDIO	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)
				STM32F	427/437 line:	2x USB OT	G (FS/HS1)	, came	ra IF,	crypt	o/ha	sh p	rocessor	² - 168	MHz	CPU					
STM32F427IG	1024	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6		2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F427VG	1024	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6		2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F427ZG	1024	256	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6		2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F437IG ²	1024	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6		2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F437VG ²	1024	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6		2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F437ZG ²	1024	256	LQFP144	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit	24x12-bit	2x12-bit	114	6		2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F427II	2048	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit	downcounter	24x12-bit	2x12-bit	140	6		2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F427VI	2048	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6		2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F427ZI	2048	256	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6		2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F437II ²	2048	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6		2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105
STM32F437VI ²	2048	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6		2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F437ZI ²	2048	256	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6		2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	238	-40 to +105

				Timer f	unctions								Serial in	nterfac	е				Supply (Ic		
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	SAI	I ² S	I ² C	USART UART ³	USB OTG	CAN 2.0B	SDI0	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
			STM32F429		ame as STM3	2F427/437	line + TFT	LCD c	ontro	ller, S	DRA	M in	terface, o	dual-ba	ınk Fl	ish - 1	80 MHz C	PU			
STM32F429BG	1024	256	LQFP208	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.74 to 3.6	2.5	260	-40 to +105
STM32F429IG	1024	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.74 to 3.6	2.5	260	-40 to +105
STM32F429NG	1024	256	TFBGA216	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105
STM32F429VG	1024	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +105
STM32F429ZG	1024	256	LQFP144 WLCSP143	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105
STM32F439BG ²	1024	256	LQFP208	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105
STM32F439IG ²	1024	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.74 to 3.6	2.5	260	-40 to +105
STM32F439NG ²	1024	256	TFBGA216	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit	24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105
STM32F439VG ²	1024	256	LQFP100	12x16-bit / 2x32-bit	downcounter	16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +105
STM32F439ZG ²	1024	256	LQFP144 WLCSP143	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105
STM32F429BI	2048	256	LQFP208	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.74 to 3.6	2.5	260	-40 to +105
STM32F429II ²	2048	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105
STM32F429NI	2048	256	TFBGA216	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.74 to 3.6	2.5	260	-40 to +105
STM32F429VI	2048	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +105
STM32F429ZI	2048	256	LQFP144 WLCSP143	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105
STM32F439BI ²	2048	256	LQFP208	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.74 to 3.6	2.5	260	-40 to +105

				Timer f	unctions								Serial in	nterfac	е				Supply (Ic		Maximum
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)		16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	SAI	I ² S	I ² C	USART + UART3	USB OTG	CAN 2.0B	SDIO	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)
STM32F439II ²	2048	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	3	2	4+4	2	2	1	Yes	1.7⁴ to 3.6	2.5	260	-40 to +105
STM32F439NI ²	2048	256	TFBGA216	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit	24x12-bit	2x12-bit	168	6	1	3	2	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105
STM32F439VI ²	2048	256	LQFP100	12x16-bit / 2x32-bit	downcounter	16x12-bit	2x12-bit	82	6	1	3	2	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +105
STM32F439ZI ²	2048	256	LQFP144 WLCSP143	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	3	2	4+4	2	2	1	Yes	1.7 ⁴ to 3.6	2.5	260	-40 to +105

Notes:

- 1. HS requires an external PHY connected to ULPI interface
- 2. Crypto/hash processor on STM32F417, STM32F415, STM32F437, STM32F439
- 3. Marked in the table (3+2) means 3 USART and 2 UART. All UARTs have LIN master/slave function. All USARTs have IrDA, ISO 7816, modem control and LIN master/slave functions.
- 4. 1.7 V requires external reset circuitry and the device operates in the 0 to 70 °C temperature range

STM32 F1 SERIES - ARM CORTEXTM-M3 MAINSTREAM MCUS

				Timer 1	functions							Se	erial ir	iterfac	e				Supply o		Manimum
Part nmber	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-bit timers	Others	ADC	DAC	I/Os	SPI	I²S	I ² C	USART + UART¹	CEC	USB FS	CAN 2.0B	SDI0	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
						STM	32F100 Va	ue line	- 24	MHz	CPU										
STM32F100C4	16	4	LQFP48	6x16-bit		10x12-bit	2x12-bit	37	1		1	2	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100R4	16	4	LQFP64, TFBGA64	6x16-bit		16x12-bit	2x12-bit	51	1		1	2	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100C6	32	4	LQFP48	6x16-bit		10x12-bit	2x12-bit	37	1		1	2	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100R6	32	4	LQFP64, TFBGA64	6x16-bit		16x12-bit	2x12-bit	51	1		1	2	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100C8	64	8	LQFP48	7x16-bit		10x12-bit	2x12-bit	37	2		2	3	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100R8	64	8	LQFP64, TFBGA64	7x16-bit		16x12-bit	2x12-bit	51	2		2	3	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100V8	64	8	LQFP100	7x16-bit		16x12-bit	2x12-bit	80	2		2	3	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100CB	128	8	LQFP48	7x16-bit		10x12-bit	2x12-bit	37	2		2	3	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100RB	128	8	LQFP64, TFBGA64	7x16-bit	2 x WDG, RTC, 24-bit	16x12-bit	2x12-bit	51	2		2	3	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100VB	128	8	LQFP100	7x16-bit	downcounter	16x12-bit	2x12-bit	80	2		2	3	1					2.0 to 3.6	1.7	358	-40 to +105
STM32F100RC	256	24	LQFP64	11x16-bit		16x12-bit	2x12-bit	51	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105
STM32F100VC	256	24	LQFP100	11x16-bit		16x12-bit	2x12-bit	80	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105
STM32F100ZC	256	24	LQFP144	11x16-bit		16x12-bit	2x12-bit	112	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105
STM32F100RD	384	32	LQFP64	11x16-bit		16x12-bit	2x12-bit	51	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105
STM32F100VD	384	32	LQFP100	11x16-bit		16x12-bit	2x12-bit	80	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105
STM32F100ZD	384	32	LQFP144	11x16-bit		16x12-bit	2x12-bit	112	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105
STM32F100RE	512	32	LQFP64	11x16-bit		16x12-bit	2x12-bit	51	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105
STM32F100VE	512	32	LQFP100	11x16-bit		16x12-bit	2x12-bit	80	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105
STM32F100ZE	512	32	LQFP144	11x16-bit		16x12-bit	2x12-bit	112	3		2	5	1					2.0 to 3.6	2.2	396	-40 to +105

STM32 F1 SERIES - ARM CORTEXTM-M3 MAINSTREAM MCUS

				Timer 1	functions							Se	rial in	iterfac	e				Supply o		Mavimum
Part nmber	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART + UART¹	CEC	USB FS	CAN 2.0B	SDI0	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
						STM3	2F101 Acc	ess lin	e - 36	MHz	z CPL	J									
STM32F101C4	16	4	LQFP48	2x16-bit		10x12-bit		36	1		1	2						2.0 to 3.6	1.7	363	-40 to +85
STM32F101R4	16	4	LQFP64	2x16-bit		16x12-bit		51	1		1	2						2.0 to 3.6	1.7	363	-40 to +85
STM32F101T4	16	4	VFQFPN36	2x16-bit		10x12-bit		26	1		1	2						2.0 to 3.6	1.7	363	-40 to +85
STM32F101C6	32	6	LQFP48	2x16-bit		10x12-bit		36	1		1	2						2.0 to 3.6	1.7	363	-40 to +85
STM32F101R6	32	6	LQFP64	2x16-bit		16x12-bit		51	1		1	2						2.0 to 3.6	1.7	363	-40 to +85
STM32F101T6	32	6	VFQFPN36	2x16-bit		10x12-bit		26	1		1	2						2.0 to 3.6	1.7	363	-40 to +85
STM32F101C8	64	10	LQFP48, VFQFPN48	3x16-bit		10x12-bit		36	2		2	3						2.0 to 3.6	1.7	363	-40 to +85
STM32F101R8	64	10	LQFP64	3x16-bit		16x12-bit		51	2		2	3						2.0 to 3.6	1.7	391	-40 to +85
STM32F101T8	64	10	VFQFPN36	3x16-bit		10x12-bit		26	1		1	2						2.0 to 3.6	1.7	391	-40 to +85
STM32F101V8	64	10	LQFP100	3x16-bit		16x12-bit		80	2		2	3						2.0 to 3.6	1.7	391	-40 to +85
STM32F101CB	128	16	LQFP48	3x16-bit		10x12-bit		36	2		2	3						2.0 to 3.6	1.7	363	-40 to +85
STM32F101RB	128	16	LQFP64, TFBGA64	3x16-bit		16x12-bit		51	2		2	3						2.0 to 3.6	1.7	391	-40 to +85
STM32F101TB	128	16	VFQFPN36	3x16-bit	2 x WDG.	10x12-bit		26	1		1	2						2.0 to 3.6	1.7	391	-40 to +85
STM32F101VB	128	16	LQFP100	3x16-bit	RTC. 24-bit	16x12-bit		80	2		2	3						2.0 to 3.6	1.7	391	-40 to +85
STM32F101RC	256	32	LQFP64	6x16-bit	downcounter	16x12-bit	2x12-bit	51	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101VC	256	32	LQFP100	6x16-bit		16x12-bit		80	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101ZC	256	32	LQFP144	6x16-bit		16x12-bit	2x12-bit	112	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101RD	384	48	LQFP64	6x16-bit		16x12-bit	2x12-bit	51	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101VD	384	48	LQFP100	6x16-bit		16x12-bit	2x12-bit	80	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101ZD	384	48	LQFP144	6x16-bit		16x12-bit		112	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101RE	512	48	LQFP64	6x16-bit		16x12-bit		51	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101VE	512	48	LQFP100	6x16-bit		16x12-bit		80	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101ZE	512	48	LQFP144	6x16-bit				112	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101RF	768	80	LQFP64	12x16-bit				51	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101VF	768	80	LQFP100	12x16-bit		16x12-bit		80	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101ZF	768	80	LQFP64	12x16-bit		16x12-bit		112	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101RG	1024	80	LQFP64	12x16-bit		16x12-bit		51	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101VG	1024	80	LQFP100	12x16-bit		16x12-bit		80	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85
STM32F101ZG	1024	80	LQFP144	12x16-bit		16x12-bit	2x12-bit	112	3		2	3+2						2.0 to 3.6	1.9	433	-40 to +85

STM32 F1 SERIES - ARM CORTEX™-M3 MAINSTREAM MCUS

				Timer 1	functions							Se	rial ir	iterfac	e				Supply (Maniana
Part nmber	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART + UART¹	CEC	USB FS	CAN 2.0B	SDIO	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
						STM3	2F102 USE	Acces	s lin	e - 48	MHz	Z									
STM32F102C4	16	4	LQFP48	2x16-bit		10x12-bit		36	1		1	2		1				2.0 to 3.6	1.55	348	-40 to +85
STM32F102R4	16	4	LQFP64	2x16-bit		16x12-bit		51	1		1	2		1				2.0 to 3.6	1.55	348	-40 to +85
STM32F102C6	32	6	LQFP48	2x16-bit	0WD0	10x12-bit		36	1		1	2		1				2.0 to 3.6	1.55	348	-40 to +85
STM32F102R6	32	6	LQFP64	2x16-bit	2 x WDG, RTC, 24-bit	16x12-bit		51	1		1	2		1				2.0 to 3.6	1.55	348	-40 to +85
STM32F102C8	64	10	LQFP48	3x16-bit	downcounter	10x12-bit		36	2		2	3		1				2.0 to 3.6	1.7	373	-40 to +85
STM32F102R8	64	10	LQFP64	3x16-bit	downloadito	16x12-bit		51	2		2	3		1				2.0 to 3.6	1.7	373	-40 to +85
STM32F102CB	128	16	LQFP48	3x16-bit		10x12-bit		36	2		2	3		1				2.0 to 3.6	1.7	373	-40 to +85
STM32F102RB	128	16	LQFP64	3x16-bit		16x12-bit		51	2		2	3		1				2.0 to 3.6	1.7	373	-40 to +85
						STM32F	103 Perfor	mance	line -	· 72 I	ИHz (CPU									
STM32F103C4	16	6	LQFP48	3x16-bit		10x12-bit		36	1		1	2		1	1			2.0 to 3.6	1.55	337	-40 to +105
STM32F103R4	16	6	LQFP64, TFBGA64	3x16-bit		16x12-bit		51	1		1	2		1	1			2.0 to 3.6	1.55	337	-40 to +105
STM32F103T4	16	6	VFQFPN36	3x16-bit		10x12-bit		26	1		1	2		1	1			2.0 to 3.6	1.55	337	-40 to +105
STM32F103C6	32	10	LQFP48	3x16-bit		10x12-bit		36	1		1	2		1	1			2.0 to 3.6	1.55	337	-40 to +105
STM32F103R6	32	10	LQFP64, TFBGA64	3x16-bit		16x12-bit		51	1		1	2		1	1			2.0 to 3.6	1.55	337	-40 to +105
STM32F103T6	32	10	VFQFPN36	3x16-bit		10x12-bit		26	1		1	2		1	1			2.0 to 3.6	1.55	373	-40 to +105
STM32F103C8	64	20	LQFP48	4x16-bit		10x12-bit		36	2		2	3		1	1			2.0 to 3.6	1.7	373	-40 to +105
STM32F103R8	64	20	LQFP64, TFBGA64	4x16-bit	2 x WDG, RTC, 24-bit	16x12-bit		51	2		2	3		1	1			2.0 to 3.6	1.7	373	-40 to +105
STM32F103T8	64	20	VFQFPN36	4x16-bit	downcounter	10x12-bit		26	1		1	2		1	1			2.0 to 3.6	1.7	373	-40 to +105
STM32F103V8	64	20	LFBGA100, LQFP100	4x16-bit		16x12-bit		80	2		2	3		1	1			2.0 to 3.6	1.7	373	-40 to +105
STM32F103CB	128	20	LQFP48, VFQFPN48	4x16-bit		10x12-bit		36	2		2	3		1	1			2.0 to 3.6	1.7	373	-40 to +105
STM32F103RB	128	20	LQFP64 , TFBGA64	4x16-bit		16x12-bit		51	2		2	3		1	1			2.0 to 3.6	1.7	373	-40 to +105
STM32F103TB	128	20	VFQFPN36	4x16-bit		10x12-bit		26	1		1	2		1	1			2.0 to 3.6	1.7	373	-40 to +105
STM32F103VB	128	20	LFBGA100, LQFP100	4x16-bit		16x12-bit		80	2		2	3		1	1			2.0 to 3.6	1.7	373	-40 to +105

STM32 F1 SERIES - ARM CORTEXTM-M3 MAINSTREAM MCUS

				Timer 1	unctions							Se	rial ir	iterfac	е				Supply o		Maximum
Part nmber	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART + UART¹	CEC	USB FS	CAN 2.0B	SDIO	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)
STM32F103RC	256	48	LQFP64, WLCSP64	8x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103VC	256	48	LFBGA100, LQFP100	8x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZC	256	48	LFBGA144, LQFP144	8x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103RD	384	64	LQFP64, WLCSP64	8x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103VD	384	64	LFBGA100, LQFP100	8x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZD	384	64	LFBGA144, LQFP144	8x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103RE	512	64	LQFP64, WLCSP64	8x16-bit	2 x WDG, RTC, 24-bit	16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103VE	512	64	LFBGA100, LQFP100	8x16-bit	downcounter	16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZE	512	64	LFBGA144, LQFP144	8x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103RF	768	96	LQFP64	12x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103VF	768	96	LQFP100	14x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZF	768	96	LFBGA144, LQFP144	14x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103RG	1024	96	LQFP64	12x16-bit		16x12-bit		51	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103VG	1024	96	LQFP100	14x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZG	1024	96	LFBGA144, LQFP144	14x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1		2.0 to 3.6	1.9	421	-40 to +105

STM32 F1 SERIES - ARM CORTEXTM-M3 MAINSTREAM MCUS

				Timer 1	unctions							Se	rial in	iterfac	е				Supply o		Maximum
Part nmber	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-bit timers	Others	ADC	DAC	I/Os	SPI	I²S	I ² C	USART + UART¹	CEC	USB FS	CAN 2.0B	SDIO	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)
						STM32F10	5/107 Con	nectivi	ty line	- 72	MHz	z CPU									
STM32F105R8	64	64	LQFP64	7x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F105V8	64	64	LQFP100	7x16-bit		16x12-bit		80	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F105RB	128	64	LQFP64	7x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F105VB	128	64	LFBGA100, LQFP100	7x16-bit	0 14/00	16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F107RB	128	64	LQFP64	7x16-bit	2 x WDG, RTC, 24-bit	16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2		Yes	2.0 to 3.6	1.9	393	-40 to +105
STM32F107VB	128	64	LQFP100	7x16-bit	downcounter	16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2		Yes	2.0 to 3.6	1.9	393	-40 to +105
STM32F105RC	256	64	LQFP64	7x16-bit	downlooding	16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F105VC	256	64	LQFP100	7x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F107RC	256	64	LQFP64	7x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2		Yes	2.0 to 3.6	1.9	393	-40 to +105
STM32F107VC	256	64	LFBGA100, LQFP100	7x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2		Yes	2.0 to 3.6	1.9	393	-40 to +105

Note:

^{1.} Marked in the table (3+2) means 3 USART and 2 UART. All UARTs have LIN master/slave function. All USARTs have IrDA, ISO 7816, modem control and LIN master/slave functions.

STM32 F2 SERIES - ARM CORTEX™-M3 HIGH-PERFORMANCE MCUS

				Timer f	unctions							Seria	l interfa	ice				Supply (Ic		
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART UART ³	USB OTG FS +FS/ HS	CAN 2.0B	SDI0	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
				S1	M32F205/215	line: USB (OTG (FS/HS), cryp	to/ha	sh pr	ocess	or² - 120	MHz C	PU						
STM32F205RB	128	64	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205VB	128	64	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205RC	256	96	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205VC	256	96	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205ZC	256	96	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205RE	512	128	LQFP64, WLCSP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1		1.7/1.8 to 3.6	2.5	188	-40 to +105
STM32F215RE ²	512	128	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F215VE ²	512	128	LQFP100	12x16-bit / 2x32-bit	2 x WDG,	16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205VE	512	128	LQFP100	12x16-bit / 2x32-bit	RTC, 24-bit downcounter	16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205ZE	512	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F215ZE ²	512	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205RF	768	128	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205VF	768	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205ZF	768	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205RG	1024	128	LQFP64, WLCSP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1		1.7/1.8 to 3.6	2.5	188	-40 to +105
STM32F215RG ²	1024	128	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105

STM32 F2 SERIES - ARM CORTEX™-M3 HIGH-PERFORMANCE MCUS

				Timer f	unctions							Seria	l interfa	ace				Supply (Ic		
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART + UART3	USB OTG FS +FS/ HS	CAN 2.0B	SDIO	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
STM32F205VG	1024	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F215VG ²	1024	128	LQFP100	12x16-bit / 2x32-bit	2 x WDG, RTC, 24-bit	16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F205ZG	1024	128	LQFP144	12x16-bit / 2x32-bit	downcounter	24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
STM32F215ZG ²	1024	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1		1.8 to 3.6	2.5	188	-40 to +105
				STM32F2	207/217 line: 2	x USB OTG	(FS/HS¹), ca	amera	IF, cry	pto/h	nash p	rocesso	r² - 120	MHz	CPU					
STM32F207VC	256	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207ZC	256	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207IC	256	128	UFBGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207VE	512	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217VE ²	512	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207ZE	512	128	LQFP144	12x16-bit / 2x32-bit	2 x WDG,	24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217ZE ²	512	128	LQFP144	12x16-bit / 2x32-bit	RTC, 24-bit downcounter	24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207IE	512	128	UFBGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217IE ²	512	128	UFBGA176	12x16-bit / 2x32-bit	1	24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207VF	768	128	LQFP100	12x16-bit / 2x32-bit	1	16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207ZF	768	128	LQFP144	12x16-bit / 2x32-bit	1	24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207IF	768	128	UFBGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105

STM32 F2 SERIES - ARM CORTEX™-M3 HIGH-PERFORMANCE MCUS

		Internal		Timer f	unctions							Seria	l interfa	ice				Supply (Ic		Maximum
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART + UART3	USB OTG FS +FS/ HS	CAN 2.0B	SDIO	Ethernet MAC10 /100	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)
STM32F207VG	1024	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217VG ²	1024	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207ZG	1024	128	LQFP144	12x16-bit / 2x32-bit	2 x WDG, RTC, 24-bit	24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217ZG ²	1024	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207IG	1024	128	LQFP176, UFBGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217IG ²	1024	128	LQFP176, UFBGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105

Notes:

- 1. HS requires an external PHY connected to ULPI interface
- 2. Crypto/hash processor on STM32F217 and STM32F215
- 3. Marked in the table (3+2) means 3 USART and 2 UART. All UARTs have LIN master/slave function. All USARTs have IrDA, ISO 7816, modem control and LIN master/slave functions.

STM32 L1 SERIES - ARM CORTEX™-M3 ULTRA-LOW-POWER MCUS

					Timer fu	nctions							Serial in	erface	9			Supply (
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART	USB FS	SDIO	FSMC	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Display controller (LCD)
						STM	32L100 Valu	e line - 32 l	ИHz С	PU										
STM32L100C6	32	4	2048	UFQFPN48	6x16-bit	SysTick,	16x12-bit	2x12-bit	37	2	N/A	2	3	1	N/A	N/A	1.8 to 3.6	0.3	230	4x16
STM32L100R8	64	8	2048	LQFP64	6x16-bit	2 x WDG,	20x12-bit	2x12-bit	50	2	N/A	2	3	1	N/A	N/A	1.8 to 3.6	0.3	230	4x32/8x28
STM32L100RB	128	10	2048	LQFP64	6x16-bit	RTC	20x12-bit	2x12-bit	50	2	N/A	2	3	1	N/A	N/A	1.8 to 3.6	0.3	230	4x32/8x28
						S	TM32L151/1	52 - 32 MH:	z CPU											
STM32L151C6	32	10	4096	LQFP48, UFQFPN48	6x16-bit		16x12-bit	2x12-bit	36	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L151R6	32	10	4096	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	50	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L152C6	32	10	4096	LQFP48, UFQFPN48	6x16-bit		16x12-bit	2x12-bit	36	2		2	3	1			1.65 to 3.6	0.3	230	4x16
STM32L152R6	32	10	4096	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	50	2		2	3	1			1.65 to 3.6	0.3	230	4x32/8x28
STM32L151C8	64	10	4096	LQFP48, UFQFPN48	6x16-bit		16x12-bit	2x12-bit	36	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L151R8	64	10	4096	LQFP64, TFBGA64	6x16-bit	0	20x12-bit	2x12-bit	50	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L151V8	64	10	4096	LQFP100, UFBGA100	6x16-bit	SysTick, 2 x WDG, RTC	24x12-bit	2x12-bit	82	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L152C8	64	10	4096	LQFP48, UFQFPN48	6x16-bit	NIU	16x12-bit	2x12-bit	36	2		2	3	1			1.65 to 3.6	0.3	230	4x16
STM32L152R8	64	10	4096	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	50	2		2	3	1			1.65 to 3.6	0.3	230	4x32/8x28
STM32L152V8	64	10	4096	LQFP100, UFBGA100	6x16-bit		24x12-bit	2x12-bit	82	2		2	3	1			1.65 to 3.6	0.3	230	4x44/8x40
STM32L151CB	128	16	4096	LQFP48, UFQFPN48	6x16-bit		16x12-bit	2x12-bit	36	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L151RB	128	16	4096	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	50	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L151VB	128	16	4096	LQFP100, UFBGA100	6x16-bit		24x12-bit	2x12-bit	82	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	

STM32 L1 SERIES - ARM CORTEXTM-M3 ULTRA-LOW-POWER MCUS

					Timer fu	nctions							Serial in	terfac	•			Supply (
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART	USB FS	SDIO	FSMC	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Display controller (LCD)
STM32L152CB	128	16	4096	LQFP48, UFQFPN48	6x16-bit		16x12-bit	2x12-bit	36	2		2	3	1			1.65 to 3.6	0.3	230	4x16
STM32L152RB	128	16	4096	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	50	2		2	3	1			1.65 to 3.6	0.3	230	4x32/8x28
STM32L152VB	128	16	4096	LQFP100, UFBGA100	6x16-bit		24x12-bit	2x12-bit	82	2		2	3	1			1.65 to 3.6	0.3	230	4x44/8x40
STM32L151QC	256	32	8192	UFBGA132	8x16-bit / 1x32-bit		39x12-bit	2x12-bit	108	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L151RC	256	32	8192	LQFP64, WLCSP64	8x16-bit / 1x32-bit		21x12-bit	2x12-bit	50	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L151VC	256	32	8192	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	82	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L151ZC	256	32	8192	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	114	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	230	
STM32L152QC	256	32	8192	UFBGA132	8x16-bit / 1x32-bit	SysTick, 2 x WDG.	39x12-bit	2x12-bit	108	3	2	2	3	1			1.65 to 3.6	0.3	230	4x44/8x40
STM32L152RC	256	32	8192	LQFP64, WLCSP64	8x16-bit / 1x32-bit	RTC	21x12-bit	2x12-bit	50	3	2	2	3	1			1.65 to 3.6	0.3	230	4x32/8x28
STM32L152VC	256	32	8192	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	82	3	2	2	3	1			1.65 to 3.6	0.3	230	4x44/8x40
STM32L152ZC	256	32	8192	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	114	3	2	2	3	1			1.65 to 3.6	0.3	230	4x44/8x40
STM32L151QD	384	48	16384	UFBGA132	8x16-bit / 1x32-bit		39x12-bit	2x12-bit	108	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	
STM32L151RD	384	48	16384	LQFP64	8x16-bit / 1x32-bit		21x12-bit	2x12-bit	50	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	
STM32L151VD	384	48	16384	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	82	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	
STM32L151ZD	384	48	16384	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	114	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	
STM32L152QD	384	48	16384	UFBGA132	8x16-bit / 1x32-bit		39x12-bit	2x12-bit	108	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	4x44/8x40

STM32 L1 SERIES - ARM CORTEXTM-M3 ULTRA-LOW-POWER MCUS

					Timer fur	nctions							Serial int	terfac	;			Supply (
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	16-/32-bit timers	Others	ADC	DAC	I/Os	SPI	I ² S	I ² C	USART	USB FS	SDIO	FSMC	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Display controller (LCD)
STM32L152RD	384	48	16384	LQFP64	8x16-bit / 1x32-bit	Continu	21x12-bit	2x12-bit	50	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	4x32/8x28
STM32L152VD	384	48	16384	LQFP100	8x16-bit / 1x32-bit	SysTick, 2 x WDG, RTC	25x12-bit	2x12-bit	82	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	4x44/8x40
STM32L152ZD	384	48	16384	LQFP144	8x16-bit / 1x32-bit	MIC	40x12-bit	2x12-bit	114	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	4x44/8x40
						STM32L162	2 line with L	CD and AES	- 32	MHz	CPU									
STM32L162QD	384	48	16384	UFBGA132	8x16-bit / 1x32-bit		39x12-bit	2x12-bit	108	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	4x44/8x40
STM32L162RD	384	48	16384	LQFP64	8x16-bit / 1x32-bit	SysTick, 2 x WDG,	21x12-bit	2x12-bit	50	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	4x32/8x28
STM32L162VD	384	48	16384	LQFP100	8x16-bit / 1x32-bit	RTC	25x12-bit	2x12-bit	82	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	4x44/8x40
STM32L162ZD	384	48	16384	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	114	3	2	2	5	1	1	1	1.65 to 3.6	0.3	230	4x44/8x40

Notes:

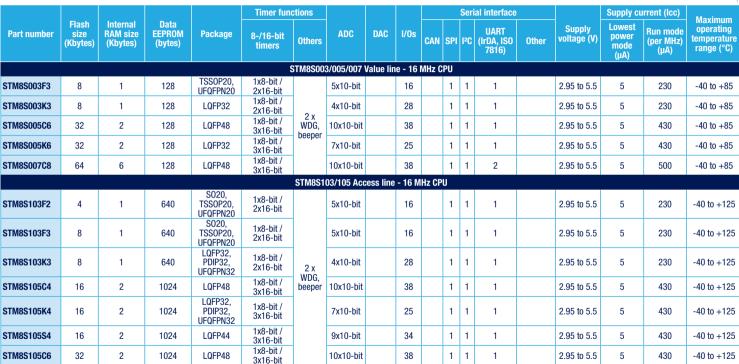
⁻ Touch-sensing FW library available for all STM32L15x and STM32L16x devices - Operating temperature is - 40 to +85 °C for all STM32L1 devices

STM32W SERIES - ARM CORTEX™-M3 WIRELESS MCUS

				Timer	functions			Se	rial int	terface		Supply c		Maximum	
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	16-bit timers	Others	ADC	I/Os	SPI	I ² C	UART	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)	RF FW library
					STM32W108 lin	e - IEEE 802.	15.4 - 24 N	ЛНz CF	U						
STM32W108C8	64	8	VFQFPN48	2x16-bit		6x12-bit	24	2	2	1	2.1 to 3.6	0.4	250	-40 to +85	
STM32W108CB	128	8	VFQFPN48	2x16-bit		6x12-bit	24	2	2	1	2.1 to 3.6	0.4	250	-40 to +85	Simple MAC, RF4CE
STM32W108HB	128	8	VFQFPN40	2x16-bit	WDG, RTC, IEEE 802.15.4 radio	6x12-bit	18	2	2	1	2.1 to 3.6	0.4	250	-40 to +85	
STM32W108CZ	192	12	UFQFPN48	2x16-bit	802.15.4 radio	6x12-bit	24	2	2	1	2.1 to 3.6	0.4	250	-40 to +105	Simple MAC,
STM32W108CC	256	16	UFQFPN48	2x16-bit		6x12-bit	24	2	2	1	2.1 to 3.6	0.4	250	-40 to +105	RF4CE, ZigBee IP and SEP 2.0

STM8 - 8-bit microcontroller families

STM8S SERIES - MAINSTREAM MCUS





STM8S SERIES - MAINSTREAM MCUS

					Timer fund	ctions						Seri	ial interface			Supply cu	rrent (Icc)	Maximum
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	8-/16-bit timers	Others	ADC	DAC	I/Os	CAN	SPI	I ² C	UART (IrDA, ISO 7816)	Other	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)
STM8S105K6	32	2	1024	LQFP32, PDIP32, UFQFPN32	1x8-bit / 3x16-bit	2 x WDG,	7x10-bit		25		1	1	1		2.95 to 5.5	5	430	-40 to +125
STM8S105S6	32	2	1024	LQFP44	1x8-bit / 3x16-bit	beeper	9x10-bit		34		1	1	1		2.95 to 5.5	5	430	-40 to +125
						M8S207/	208 Perfor	mance l	ine - 24	MHz	CPU							
STM8S207C6	32	6	1024	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207K6	32	6	1024	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1	1	1		2.95 to 5.5	5	500	-40 to +125
STM8S207R6	32	6	1024	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207S6	32	6	1024	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208C6	32	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208R61	32	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208S6	32	6	1536	LQFP44	1x8-bit / 3x16-bit	2 x WDG.	9x10-bit		34	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207C8	64	6	1536	LQFP48	1x8-bit / 3x16-bit	beeper	10x10-bit		38		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207K8	64	6	1024	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1	1	1		2.95 to 5.5	5	500	-40 to +125
STM8S207M8	64	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		68		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207R8	64	6	1536	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207S8	64	6	1536	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208C8	64	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208M8 ¹	64	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		68	1	1	1	2		2.95 to 5.5	5	500	-40 to +125

STM8S SERIES - MAINSTREAM MCUS

					Timer fund	ctions						Seri	al interface			Supply cu	rrent (lcc)	Maximum
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	8-/16-bit timers	Others	ADC	DAC	I/Os	CAN	SPI	I ² C	UART (IrDA, ISO 7816)	Other	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)
STM8S208R8	64	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208S81	64	6	1536	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207CB	128	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207MB	128	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		68		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207RB	128	6	2048	LQFP64	1x8-bit / 3x16-bit	2 x WDG.	16x10-bit		52		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207SB	128	6	1536	LQFP44	1x8-bit / 3x16-bit	beeper	9x10-bit		34		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208CB	128	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208MB	128	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		68	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208RB	128	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208SB1	128	6	1536	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
					STM8S903	/STM8SP	LNB1 Appl	ication s	pecific	line -	16 I	VIHz	CPU					
STM8S903F3	8	1	640	S020, TSS0P20, UFQFPN20	1x8-bit / 2x16-bit	2 x WDG.	5x10-bit		16		1	1	1		2.95 to 5.5	5	230	-40 to +125
STM8S903K3	8	1	640	LQFP32, PDIP32 , UFQFPN32	1x8-bit / 2x16-bit	beeper	7x10-bit		28		1	1	1		2.95 to 5.5	5	230	-40 to +125
STM8SPLNB1	8	1	640	S020, TSS0P20, UFQFPN20			5x10-bit					4		2xDiSEqC	2.95 to 5.5	5	230	-40 to +85

Note:

1. On demand only

STM8AF SERIES – MAINSTREAM AUTOMOTIVE MCUS

					Timer fun	ctions						Serial i	nterface				Supply (Ic		
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	8-/16- bit timers	Others	ADC	DAC	I/Os	CAN	LIN- UART	USART (IrDA, ISO 7816, LIN 1.3, LIN 2.0)	SPI	l ² C	IRTx	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
								STM8AF	Serie	s									
	STM8AF52 CAN and LIN line - Up to 24 MHz CPU																		
STM8AF5268	32	6	1024	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF5269	32	6	1024	LQFP64	1x8-bit / 3x16-bit		16x10-bit		54	1	1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF5288	64	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF5289	64	6	2048	LQFP64	1x8-bit / 3x16-bit	IWDG, WWDG.	16x10-bit		54	1	1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF528A	64	6	2048	LQFP80	1x8-bit / 3x16-bit	AWU	16x10-bit		70	1	1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF52A8	128	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF52A9	128	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		54	1	1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF52AA	128	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		70	1	1		1	1		3 to 5.5	5	500	-40 to +150
							STM8AF62	LIN line -	Up to	24 M	Hz CPU						•		
STM8AF6223	8	1	640	TSS0P20	1x8-bit / 2x16-bit		5x10-bit 7x10-bit		16		1		1	1		3 to 5.5	5	230	-40 to +150
STM8AF6226	8	2	384	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1		3 to 5.5	5	430	-40 to +150
STM8AF6226T	8	1	640	LQFP32, VFQFPN32	1x8-bit / 2x16-bit	IWDG,	5x10-bit		28		1		1	1		3 to 5.5	5	230	-40 to +150
STM8AF6246	16	2	512	LQFP32, VFQFPN32	1x8-bit / 3x16-bit	WWDĠ, AWU	7x10-bit		25		1		1	1		3 to 5.5	5	430	-40 to +150
STM8AF6248	16	2	512	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1		1	1		3 to 5.5	5	430	-40 to +150
STM8AF6266	32	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1		3 to 5.5	5	430	-40 to +150

STM8AF SERIES – MAINSTREAM AUTOMOTIVE MCUS

					Timer fur	ctions						Serial i	nterface				Supply (Ic		
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	8-/16- bit timers	Others	ADC	DAC	I/Os	CAN	LIN- UART	USART (IrDA, ISO 7816, LIN 1.3, LIN 2.0)	SPI	I ² C	IRTx	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
STM8AF6268	32	2	1024	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1		1	1		3 to 5.5	5	430	-40 to +150
STM8AF6269	32	6	1024	LQFP64	1x8-bit / 3x16-bit		16x10-bit		54		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF6286	64	6	2048	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1		3 to 5.5	5	500	-40 to +150
STM8AF6288	64	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF6289	64	6	2048	LQFP64	1x8-bit / 3x16-bit	IWDG, WWDG.	16x10-bit		54		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF628A	64	6	2048	LQFP80	1x8-bit / 3x16-bit	AWU	16x10-bit		70		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF62A6	128	6	2048	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1		3 to 5.5	5	500	-40 to +150
STM8AF62A8	128	6	2048	LQFP 48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF62A9	128	6	2048	LQFP64	1x8-bit / 3x16-bit		10x10-bit		54		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF62AA	128	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		70		1	1	1	1		3 to 5.5	5	500	-40 to +150

STM8AL SERIES - ULTRA-LOW-POWER AUTOMOTIVE MCUS

					Timer fur	octions						Serial i	interface				Supply (Ic		
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	8-/16- bit timers	Others	ADC	DAC	I/Os	CAN	LIN- UART	USART (IrDA, ISO 7816, LIN 1.3, LIN 2.0)	SPI	I ² C	IRTx	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)
						STN	18AL30 Val	ue low-po	wer li	ne - 1	6 MHz (CPU							
STM8AL3026	4	1.5	2048	LQFP32, VFQFPN32	1x8-bit / 2x16-bit	IWDG, AWU.			30			1	1	1	1	1.65 to 3.6	0.35	150	-40 to +125
STM8AL3036	8	1.5	2048	LQFP32, VFQFPN32	1x8-bit / 2x16-bit	beeper			30			1	1	1	1	1.65 to 3.6	0.35	150	-40 to +125
						STM8	AL31 Stan	dard low-p	ower	line -	16 MH	z CPU							
STM8AL3126	4	2	256	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3136	8	2	256	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3138	8	2	1024	LQFP48	1x8-bit / 3x16-bit	IWDG,	25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3146	16	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit	WWDG, AWU, RTC,	22x12-bit	1x12-bit	30			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3148	16	2	1024	LQFP48	1x8-bit / 3x16-bit	beeper	25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3166	32	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3168	32	2	1024	LQFP48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
					STM8A	L3L LCD	(4x17) or (4	1x28) Stan	dard	low-p	ower lir	ne - 16 MHz	CPU						
STM8AL3L46	16	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit	IMDC	21x12.bit	1x12-bit	29			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3L48	16	2	1024	LQFP48	1x8-bit / 3x16-bit	IWDG, WWDG, AWU,	25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3L66	32	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit	RTC, beeper	21x12-bit	1x12-bit	29			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3L68	32	2	1024	LQFP48	1x8-bit / 3x16-bit	Бооры	25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125

Notes:

⁻ All STM8AL part numbers have DMA with 4 channels except STM8AL30 - For all STM8AL3Lx6 LCD is(4x17) and for all STM8AL3Lx8 LCD (4x28)

STM8L SERIES - ULTRA-LOW-POWER MCUS

					Timer fu	nctions					Serial	interface			Supply current (lcc)		Marrianna	
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	8-/16-bit timers	Others	ADC	DAC	I/Os	SPI	I ² C	USART (IrDA, ISO 7816)	IRTx	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	Maximum operating temperature range (°C)	Display controller (LCD)
						ST	M8L051/052	2 Value li	ne - 10	6 MHz	CPU							
STM8L051F3	8	1	256	TSS0P20	1x8-bit / 2x16-bit	2 x WDG.	10x12-bit		18	1	1	1		1.8 to 3.6	0.35	180	-40 to +85	
STM8L052C6	32	2	256	LQFP48	1x8-bit / 3x16-bit	IWDG, RTC,	25x12-bit		41	1	1	1		1.8 to 3.6	0.35	180	-40 to +85	4x28
STM8L052R8	64	4	256	LQFP64	1x8-bit / 4x16-bit	beeper	28x12-bit		54	2	1	3		1.8 to 3.6	0.4	200	-40 to +85	4x28/8x24
						:	STM8L101 e	entry line	- 16 N	ЛНZ СР	U							
STM8L101F1	2	1.5		UFQFPN20	1x8-bit / 2x16-bit				18	1	1	1	1	1.65 to 3.6	0.3	150	-40 to +85	
STM8L101F2	4	1.5		TSSOP20, UFQFPN20	1x8-bit / 2x16-bit				18	1	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L101G2	4	1.5		UFQFPN28	1x8-bit / 2x16-bit	IWDG,			26	1	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L101F3	8	1.5	1	TSSOP20, UFQFPN20	1x8-bit / 2x16-bit	AWU, beeper			18	1	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L101G3	8	1.5	1	UFQFPN28	1x8-bit / 2x16-bit				26	1	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L101K3	8	1.5	1	LQFP32, UFQFPN32	1x8-bit / 2x16-bit				30	1	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
							STM8L15	1/152 - 1	6 MHz	CPU								
STM8L151C2	4	1	256	LQFP48	1x8-bit / 2x16-bit		28x12-bit		41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151F2	4	1	256	TSSOP20, UFQFPN20	1x8-bit / 2x16-bit	0WD0	10x12-bit		18	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151G2	4	1	256	UFQFPN28	1x8-bit / 2x16-bit	2 x WDG, AWU, RTC,	18x12-bit		26	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151K2	4	1	256	UFQFPN32	1x8-bit / 2x16-bit	beeper	23x12-bit		30	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151C3	8	1	256	LQFP 48	1x8-bit / 2x16-bit		28x12-bit		41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	

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					Timer fu	nctions					Serial	interface			Supply current (Icc)		Maximum	Display
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	8-/16-bit timers	Others	ADC	DAC	I/Os	SPI	I ² C	USART (IrDA, ISO 7816)	IRTx	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)	Display controller (LCD)
STM8L151F3	8	1	256	TSS0P20, UFQFPN20	1x8-bit / 2x16-bit		10x12-bit		18	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151G3	8	1	256	UFQFPN28	1x8-bit / 2x16-bit		18x12-bit		26	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151K3	8	1	256	UFQFPN32	1x8-bit / 2x16-bit		23x12-bit		30	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151C4	16	2	1024	LQFP48, UFQFPN48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151G4	16	2	1024	UFQFPN28, WLCSP28	1x8-bit / 3x16-bit		18x12-bit	1x12-bit	26	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151K4	16	2	1024	LQFP32, UFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L152C4	16	2	1024	LQFP48, UFQFPN48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	4x28
STM8L152K4	16	2	1024	LQFP32, UFQFPN32	1x8-bit / 3x16-bit	2 x WDG,	21x12-bit	1x12-bit	29	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	4x17
STM8L151C6	32	2	1024	LQFP48, UFQFPN48	1x8-bit / 3x16-bit	AWU, RTC, beeper	25x12-bit	1x12-bit	41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151G6	32	2	1024	UFQFPN28, WLCSP28	1x8-bit / 3x16-bit		18x12-bit	1x12-bit	26	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151K6	32	2	1024	LQFP32 , UFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151R6	32	2	1024	LQFP64	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	
STM8L152C6	32	2	1024	LQFP48, UFQFPN48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	4x28
STM8L152K6	32	2	1024	LQFP32, UFQFPN32	1x8-bit / 3x16-bit		21x12-bit	1x12-bit	29	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	4x17
STM8L152R6	32	2	1024	LQFP64	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x40/8x36
STM8L151C8	64	4	2048	LQFP48, UFQFPN48	1x8-bit / 4x16-bit		25x12-bit	2x12-bit	41	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	

STM8L SERIES - ULTRA-LOW-POWER MCUS

			Data		Timer fu	nctions					Serial i	interface			Supply current (Icc)		Maximum	
Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	8-/16-bit timers	Others	ADC	DAC	I/Os	SPI	I ² C	USART (IrDA, ISO 7816)	IRTx	Supply voltage (V)	Lowest power mode (µA)	Run mode (per MHz) (µA)	operating temperature range (°C)	Display controller (LCD)
STM8L151M8	64	4	2048	LQFP80	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	68	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	
STM8L151R8	64	4	2048	LQFP64	1x8-bit / 4x16-bit	0 WD0	28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	
STM8L152C8	64	4	2048	LQFP48, UFQFPN48	1x8-bit / 4x16-bit	2 x WDG, AWU, RTC, beeper	25x12-bit	2x12-bit	41	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x32/8x28
STM8L152M8	64	4	2048	LQFP80	1x8-bit / 4x16-bit	neehei	28x12-bit	2x12-bit	68	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x44/8x40
STM8L152R8	64	4	2048	LQFP64	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x40/8x36
							STM8L	162 - 16	MHz C	PU								
STM8L162M8	64	4	2048	LQFP80	1x8-bit / 4x16-bit	2 x WDG, AWU, RTC.	28x12-bit	2x12-bit	68	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x44/8x40
STM8L162R8	64	4	2048	LQFP64	1x8-bit / 4x16-bit	beeper	28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x44/8x40

Note:

^{1.} Up to 2 Kbytes of EEPROM

Abbreviations and packages

ABBREVIATIONS

ADC Analog-to-digital converter I CD Liquid crystal display SPI Serial peripheral interface ART Auto-reload timer LIN Local interconnect network SSC ATAPI LVD SSP Synchronous serial port AT attachment packet interface Low voltage detection TBU AWI I Auto wake-up from halt MAC Multiply accumulator Time hase unit

BI PD Byte level protocol decoder MC Motor control TH BOD Brown-out detector MFT Multifunction timer UART

CAN Controller area network MMC MultiMediaCard

CAPCOM Capture compare NMI Non-maskable interrupt

CSS Clock security system OSG Oscillator safeguard DALL Digital addressable lighting interface **PCA** Programmable counter array

DDC PDR Power-down reset Data display channel

DiSEaC Digital satellite equipment control PHW Programmable halt wake-up DMA PFC

Direct memory access Peripheral event controller DSC Dual supply control PI D Programmable logic device

DTC Data transfer coprocessor PLL Phase locked loop **ETM** Embedded trace macrocell P₀R Power-on reset

EMI External memory interface PVD Programmable voltage detector HDI C High-level data link control **PVR** Programmable voltage regulator

IAP In-application programming **PWM** Pulse width modulation IC/OC Input capture/output compare **ROP** Readout protection **ICP** programming RTC Real-time clock timer

IR Infrared SC Smartcard

Infrared data association SCI Serial communication interface IrDA

ISP In-situ programming SCR Smartcard reader 12C

Inter-integrated circuit SDI0 Secure digital input output 12S Inter-IC sound SMI Serial memory interface

Single-cycle switching support

Top level interrupt

Universal asynchronous receiver

transmitter

USART Universal sync/async receiver

transmitter

USB Universal Serial Bus WDG Watchdog timer

WWDG Window watchdog timer

PACKAGES

DIP : Dual in-line package LCC : Leaded chip carrier PDIP Shrink: Shrink Plastic Dual In-line

Package

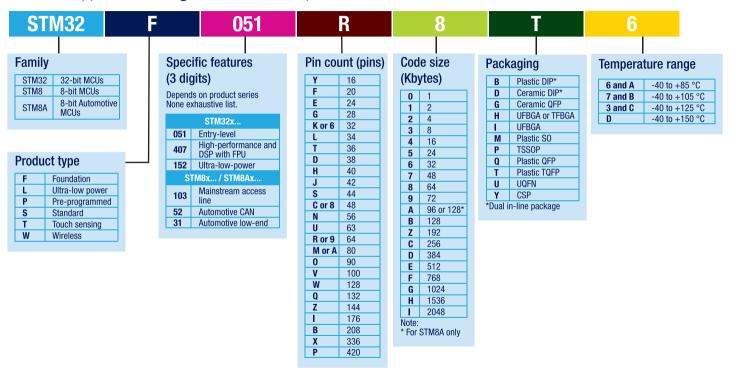
PQFP : Plastic guad flat package

SO : Small outline

LQFP : Low-profile guad flat package

PBGA : Plastic ball grid array : Dual flat no-lead DFN **OFN** : Quad flat no-lead

MCU - Typical designations and part number suffixes



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