

Product Selector Guide

Part Number	Memory					Core			Timers							External Peripheral Interface	Serial Interfaces								Analog				GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)					
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control				Ethernet		CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC			Internal Temp Sensor							Analog/Digital Comparators				
													PWM ^d	PWM Fault	Dead-Band Generator		CCP	QEI Channels							10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588									ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels	ADC Speed (samples per second)
LM3S101	8	2	–	–	–	20	–	–	✓	2	✓	1	–	–	–	1	–	–	–	–	–	1	–	1	–	–	–	–	–	2/0	2-18	–	✓	I/E	28SOIC 48QFP 48QFN	P			
LM3S102	8	2	–	–	–	20	–	–	✓	2	✓	1	–	–	–	2	–	–	–	–	–	1	1	1	–	–	–	–	–	1/0	0-18	–	✓	I/E	28SOIC 48QFP 48QFN	P			
LM3S300	16	4	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	–	2	1	1	–	–	–	–	–	3/0	8-36	–	✓	I/E	48QFP 48QFN	P			
LM3S301	16	2	–	–	–	20	–	✓	✓	2	✓	1	2	1	✓	2	–	–	–	–	–	1	–	1	–	1	10	3	250K	✓	2/0	12-33	–	✓	I/E	48QFP 48QFN	P		
LM3S308	16	4	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	–	2	1	1	–	1	10	8	500K	✓	1/0	5-28	–	✓	I/E	48QFP 48QFN	P		
LM3S310	16	4	–	–	–	25	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	2	–	1	–	–	–	–	–	3/0	3-36	–	✓	I/E	48QFP 48QFN	P			
LM3S315	16	4	–	–	–	25	–	✓	✓	3	✓	1	2	1	✓	6	–	–	–	–	–	2	–	1	–	1	10	4	250K	✓	1/0	7-32	–	✓	I/E	48QFP 48QFN	P		
LM3S316	16	4	–	–	–	25	–	✓	✓	3	✓	1	4	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	4	250K	✓	1/0	3-32	–	✓	I/E	48QFP 48QFN	P		
LM3S317	16	4	–	–	–	25	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	1	–	1	–	1	10	6	250K	✓	1/0	3-30	–	✓	I/E	48QFP 48QFN	P		

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b. Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C.

c. USB options for Stellaris microcontrollers include Device Only (D) capability, Host/Device (H) capability, and On-The-Go/Host/Device capability (O).

d. PWM motion-control functionality can be achieved through dedicated motion control hardware (the PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.

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	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators								
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels	External Peripheral Interface	10/100 MAC+PHY	10/100 MAC with MII Interface							IEEE 1588	ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels			ADC Speed (samples per second)							
LM3S328	16	4	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	–	–	2	1	1	–	1	10	8	500K	✓	0/0	7-28	–	✓	I/E	48QFP 48QFN	P		
LM3S600	32	8	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	–	2	1	1	–	–	–	–	–	–	–	3/0	8-36	–	✓	I/E	48QFP 48QFN	P		
LM3S601	32	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	1	–	–	–	–	2	1	1	–	–	–	–	–	–	–	3/0	0-36	–	✓	I/E	48QFP 48QFN	P		
LM3S608	32	8	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	–	2	1	1	–	1	10	8	500K	✓	1/0	5-28	–	✓	I/E	48QFP 48QFN	P			
LM3S610	32	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	2	500K	✓	0/0	6-34	–	✓	I/E	48QFP 48QFN	P			
LM3S611	32	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	4	500K	✓	0/0	4-32	–	✓	I/E	48QFP 48QFN	P			
LM3S612	32	8	–	–	–	50	–	✓	✓	3	✓	1	2	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	2	500K	✓	1/0	7-34	–	✓	I/E	48QFP 48QFN	P			
LM3S613	32	8	–	–	–	50	–	✓	✓	3	✓	1	4	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	4	500K	✓	1/0	3-32	–	✓	I/E	48QFP 48QFN	P			
LM3S615	32	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	2	500K	✓	3/0	0-34	–	✓	I/E	48QFP 48QFN	P			
LM3S617	32	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	2	–	1	–	1	10	6	500K	✓	1/0	1-30	–	✓	I/E	48QFP 48QFN	P			

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	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor							Analog/Digital Comparators	
													PWM ^d	PWM Fault	Dead-Band Generator	CCP		QEI Channels	10/100 MAC+PHY	10/100 MAC with MII Interface							IEEE 1588	ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels									ADC Speed (samples per second)
LM3S618	32	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	4	1	–	–	–	–	–	2	–	1	–	1	10	6	500K	✓	1/0	0-30	–	✓	I/E	48QFP 48QFN	P	
LM3S628	32	8	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	4	–	–	–	–	–	2	1	1	–	1	10	8	1M	✓	0/0	9-28	–	✓	I/E	48QFP 48QFN	P		
LM3S800	64	8	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	–	2	1	1	–	–	–	–	–	–	3/0	8-36	–	✓	I/E	48QFP 48QFN	P		
LM3S801	64	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	1	–	–	–	–	2	1	1	–	–	–	–	–	–	3/0	0-36	–	✓	I/E	48QFP 48QFN	P		
LM3S808	64	8	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	–	2	1	1	–	1	10	8	500K	✓	1/0	5-28	–	✓	I/E	48QFP 48QFN	P		
LM3S811	64	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	4	500K	✓	1/0	1-32	–	✓	I/E	48QFP 48QFN	P		
LM3S812	64	8	–	–	–	50	–	✓	✓	3	✓	1	2	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	2	250K	✓	1/0	7-34	–	✓	I/E	48QFP 48QFN	P		
LM3S815	64	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	2	1	1	–	1	10	2	500K	✓	3/0	0-34	–	✓	I/E	48QFP 48QFN	P		
LM3S817	64	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	–	–	–	–	–	2	–	1	–	1	10	6	1M	✓	1/0	1-30	–	✓	I/E	48QFP 48QFN	P		
LM3S818	64	8	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	4	1	–	–	–	–	–	2	–	1	–	1	10	6	1M	✓	1/0	0-30	–	✓	I/E	48QFP 48QFN	P	

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	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators								
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels	External Peripheral Interface	10/100 MAC+PHY	10/100 MAC with MII Interface							IEEE 1588	ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels			ADC Speed (samples per second)							
LM3S828	64	8	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	–	2	1	1	–	1	10	8	1M	✓	0/0	7-28	–	✓	I/E	48QFP 48QFN	P			
LM3S1110	64	16	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	2	–	–	–	–	–	2	–	1	–	–	–	–	–	–	2/0	20-41	✓	✓	I/E	100LQFP 108BGA	P			
LM3S1133	64	16	–	–	–	50	–	✓	✓	4	✓	1	2	1	✓	8	–	–	–	–	3	1	2	–	1	10	2	250K	✓	1/0	9-44	✓	✓	I/E	100LQFP 108BGA	P				
LM3S1138	64	16	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	–	–	3	2	2	–	1	10	8	1M	✓	3/0	9-46	✓	✓	I/E	100LQFP 108BGA	P				
LM3S1150	64	16	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	6	1	–	–	–	3	1	2	–	–	–	–	–	–	3/0	7-52	✓	✓	I/E	100LQFP 108BGA	P				
LM3S1162	64	16	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	6	–	–	–	–	3	1	2	–	1	10	2	500K	✓	3/0	4-46	✓	✓	I/E	100LQFP 108BGA	P				
LM3S1165	64	16	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	8	–	–	–	–	3	1	2	–	1	10	4	500K	✓	1/0	4-43	✓	✓	I/E	100LQFP 108BGA	P				
LM3S1332	96	16	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	2	–	1	–	1	10	3	250K	✓	3/0	29-57	✓	✓	I/E	100LQFP 108BGA	P				
LM3S1435	96	32	–	–	–	50	–	✓	✓	3	✓	1	2	1	✓	4	–	–	–	–	2	1	1	–	1	10	2	500K	✓	1/0	21-46	✓	✓	I/E	100LQFP 108BGA	P				
LM3S1439	96	32	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	1	–	–	–	2	1	2	–	1	10	4	500K	✓	1/0	14-52	✓	✓	I/E	100LQFP 108BGA	P				

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	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control				Ethernet		CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC			Internal Temp Sensor							Analog/Digital Comparators				
													PWM ^d	PWM Fault	Dead-Band Generator		CCP	QEI Channels							10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588									ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels	ADC Speed (samples per second)
LM3S1512	96	64	–	–	–	25	–	✓	✓	4	✓	1	–	–	–	8	1	–	–	–	–	–	3	2	2	–	1	10	2	250K	✓	3/0	15-58	✓	✓	I/E	100LQFP 108BGA	P	
LM3S1538	96	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	1	–	–	–	–	–	3	2	2	–	1	10	8	500K	✓	0/0	9-43	✓	✓	I/E	100LQFP 108BGA	P	
LM3S1601	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	–	3	2	2	–	–	–	–	–	–	2/0	23-60	✓	✓	I/E	100LQFP 108BGA	P		
LM3S1607	128	32	✓	✓	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	–	–	–	3	2	1	–	1	10	8	500K	✓	0/0	0-33	✓	✓	I	64LQFP	P		
LM3S1608	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	–	2	2	2	–	1	10	8	500K	✓	2/0	17-52	✓	✓	I/E	100LQFP 108BGA	P		
LM3S1620	128	32	–	–	–	25	–	✓	✓	3	✓	1	6	1	✓	4	1	–	–	–	–	2	1	2	–	–	–	–	–	–	3/0	11-52	✓	✓	I/E	100LQFP 108BGA	P		
LM3S1621	128	32	✓	✓	–	80	✓	✓	✓	4	✓	2	–	–	–	8	–	✓	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-67	✓	✓	I	100LQFP 108BGA	S		
LM3S1625	128	32	✓	✓	–	50	–	✓	✓	4	✓	1	4	1	✓	4	–	–	–	–	–	1	2	1	–	1	10	6	500K	✓	1/0	0-33	–	✓	I	64LQFP	P		
LM3S1626	128	32	✓	✓	–	50	–	✓	✓	4	✓	1	4	1	✓	4	1	–	–	–	–	2	1	1	–	1	10	6	500K	✓	0/0	0-33	–	✓	I	64LQFP	P		
LM3S1627	128	32	✓	✓	–	50	–	✓	✓	4	✓	1	6	1	✓	4	1	–	–	–	–	2	1	1	–	1	10	4	500K	✓	0/0	0-33	–	✓	I	64LQFP	P		
LM3S1635	128	32	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	8	–	–	–	–	–	3	2	2	–	1	10	4	500K	✓	2/0	12-56	✓	✓	I/E	100LQFP 108BGA	P		
LM3S1637	128	32	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	6	1	–	–	–	–	3	1	1	–	1	10	4	1M	✓	1/0	7-43	✓	✓	I/E	100LQFP 108BGA	P		

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													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels		10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588																			
LM3S1651	128	32	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	2	–	–	–	–	–	–	3	2	2	✓	2	10	16	1M	✓	2/16	0-67	✓	✓	I	100LQFP 108BGA	S	
LM3S1751	128	64	–	–	–	50	–	✓	✓	3	✓	1	4	1	✓	6	–	–	–	–	–	–	3	1	2	–	1	10	4	500K	✓	1/0	21-56	✓	✓	I/E	100LQFP 108BGA	P		
LM3S1776	128	64	✓	✓	–	50	–	✓	✓	3	✓	1	8	3	✓	2	–	–	–	–	–	–	1	1	1	–	1	10	6	1M	✓	0/0	1-33	✓	✓	I	64LQFP	P		
LM3S1811	256	32	✓	✓	–	50	✓	✓	✓	4	✓	2	–	–	–	8	–	✓	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-67	✓	✓	I	100LQFP 108BGA	S			
LM3S1816	256	32	✓	✓	–	50	✓	✓	✓	4	✓	2	–	–	–	8	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S			
LM3S1850	256	32	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	1	–	–	–	–	–	2	1	1	–	–	–	–	–	–	3/0	17-56	✓	✓	I/E	100LQFP 108BGA	P		
LM3S1911	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	–	3	2	2	–	–	–	–	–	–	2/0	23-60	✓	✓	I/E	100LQFP 108BGA	P			
LM3S1918	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	–	2	2	2	–	1	10	8	500K	✓	2/0	17-52	✓	✓	I/E	100LQFP 108BGA	P			
LM3S1937	256	64	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	4	–	–	–	–	–	2	1	1	–	1	10	4	1M	✓	1/0	27-56	✓	✓	I/E	100LQFP 108BGA	P			
LM3S1958	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	0/0	21-52	✓	✓	I/E	100LQFP 108BGA	P			
LM3S1960	256	64	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	8	2	–	–	–	–	–	3	2	2	–	–	–	–	–	–	3/0	7-60	✓	✓	I/E	100LQFP 108BGA	P		

a. Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

b. Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C.

c. USB options for Stellaris microcontrollers include Device Only (D) capability, Host/Device (H) capability, and On-The-Go/Host/Device capability (O).

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Product Selector Guide (Continued)

Part Number	Memory					Core			Timers										Serial Interfaces										Analog						GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)				
	Flash (KB)	SRAM (KB)	ROM Software Libraries			Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Motion Control					Real-Time Clock (RTC)	Watchdog	PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels	External Peripheral Interface	Ethernet				USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC								Internal Temp Sensor	Analog/Digital Comparators		
																								Ethernet									ADC											
																								10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588	CAN MAC						ADC Resolution (10- or 12-bit)	ADC Channels									ADC Speed (samples per second)	
LM3S1968	256	64	–	–	–	50	–	✓	✓	✓	4	✓	1	6	1	✓	4	2	–	–	–	–	3	2	2	–	1	10	8	1M	✓	3/0	5-52	✓	✓	I/E	100LQFP 108BGA	P						
LM3S1B21	256	96	✓	✓	–	80	✓	✓	✓	4	✓	2	–	–	–	8	–	✓	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-67	✓	✓	I	100LQFP 108BGA	S						
LM3S1J11	128	20	✓	✓	–	50	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-67	✓	✓	I	100LQFP 108BGA	S							
LM3S1J16	128	20	✓	✓	–	50	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S							
LM3S1N11	64	12	✓	✓	–	50	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-67	✓	✓	I	100LQFP 108BGA	S							
LM3S1N16	64	12	✓	✓	–	50	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S							
LM3S1P51	64	24	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	2	–	–	–	–	3	2	2	✓	2	10	16	1M	✓	2/16	0-67	✓	✓	I	100LQFP 108BGA	S							
LM3S1R21	256	48	✓	✓	–	80	✓	✓	✓	4	✓	2	–	–	–	8	–	✓	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-67	✓	✓	I	100LQFP 108BGA	S							
LM3S1R26	256	48	✓	✓	–	80	✓	✓	✓	4	✓	2	–	–	–	8	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S							
LM3S1W16	32	8	✓	✓	–	50	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S							
LM3S1Z16	16	6	✓	✓	–	50	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	–	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S							
LM3S2110	64	16	–	–	–	25	–	✓	✓	3	✓	1	2	1	✓	4	–	–	–	–	1	–	1	1	1	–	–	–	–	–	3/0	11-40	–	✓	I/E	100LQFP 108BGA	P							

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Product Selector Guide (Continued)

Part Number	Memory					Core			Timers										External Peripheral Interface	Serial Interfaces								Analog				GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)		
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor							Analog/Digital Comparators	
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels	10/100 MAC+PHY		10/100 MAC with MII Interface							IEEE 1588	ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels									ADC Speed (samples per second)
LM3S2139	64	16	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	1	–	2	1	1	–	1	10	4	250K	✓	3/0	26-56	–	✓	I/E	100LQFP 108BGA	P	
LM3S2276	64	32	✓	✓	–	50	–	✓	✓	3	✓	1	8	3	✓	1	–	–	–	–	1	–	1	1	1	–	1	10	6	1M	✓	0/0	0-33	✓	✓	I	64LQFP	P	
LM3S2410	96	32	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	4	–	–	–	–	1	–	1	–	1	–	–	–	–	–	2/0	37-60	–	✓	I/E	100LQFP 108BGA	P		
LM3S2412	96	32	–	–	–	25	–	✓	✓	3	✓	1	2	1	✓	4	–	–	–	–	1	–	2	1	1	–	1	10	3	250K	✓	2/0	20-49	–	✓	I/E	100LQFP 108BGA	P	
LM3S2432	96	32	–	–	–	50	–	✓	✓	3	✓	1	2	1	✓	4	–	–	–	–	1	–	2	1	1	–	1	10	3	250K	✓	2/0	5-34	–	✓	I/E	100LQFP 108BGA	P	
LM3S2533	96	64	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	6	–	–	–	–	1	–	2	1	1	–	1	10	3	250K	✓	3/0	11-48	✓	✓	I/E	100LQFP 108BGA	P	
LM3S2601	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	1	–	3	2	2	–	–	–	–	–	2/0	21-60	✓	✓	I/E	100LQFP 108BGA	P		
LM3S2608	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	1	–	2	2	2	–	1	10	8	500K	✓	2/0	15-52	✓	✓	I/E	100LQFP 108BGA	P	
LM3S2616	128	16	✓	✓	–	50	–	✓	✓	4	–	1	6	1	✓	–	1	–	–	–	1	–	1	1	–	–	1	10	6	1M	✓	2/0	1-33	✓	✓	I	64LQFP	P	
LM3S2620	128	32	–	–	–	25	–	✓	✓	4	✓	1	4	1	✓	6	1	–	–	–	2	–	1	1	1	–	–	–	–	–	3/0	12-52	✓	✓	I/E	100LQFP 108BGA	P		
LM3S2637	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	–	–	1	–	2	1	1	–	1	10	4	500K	✓	3/0	15-46	✓	✓	I/E	100LQFP 108BGA	P	

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Product Selector Guide (Continued)

Part Number	Memory					Core			Timers								External Peripheral Interface	Serial Interfaces								Analog						GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)		
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					Ethernet		CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators								
													PWM ^d	PWM Fault	Dead-Band Generator	CCP		QEI Channels	10/100 MAC+PHY							10/100 MAC with MII Interface	IEEE 1588	ADC Units	ADC Resolution (10- or 12-bit)									ADC Channels	ADC Speed (samples per second)
LM3S2651	128	32	–	–	–	50	–	✓	✓	4	✓	1	4	1	✓	6	–	–	–	–	1	–	3	1	2	–	1	10	4	500K	✓	1/0	16-53	✓	✓	I/E	100LQFP 108BGA	P	
LM3S2671	128	32	✓	✓	–	50	–	✓	✓	4	✓	1	2	1	✓	2	–	–	–	–	1	–	1	1	1	–	1	10	4	500K	✓	3/0	3-33	–	✓	I	64LQFP	P	
LM3S2678	128	32	✓	✓	–	50	–	✓	✓	4	✓	1	4	2	✓	2	1	–	–	–	–	1	–	1	–	1	–	1	10	8	500K	✓	0/0	1-33	–	✓	I	64LQFP	P
LM3S2730	128	64	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	4	–	–	–	–	1	–	1	–	1	–	–	–	–	–	–	2/0	37-60	–	✓	I/E	100LQFP 108BGA	P	
LM3S2739	128	64	–	–	–	50	–	✓	✓	3	✓	1	6	1	✓	6	1	–	–	–	–	1	–	2	1	1	–	1	10	4	500K	✓	1/0	20-56	✓	✓	I/E	100LQFP 108BGA	P
LM3S2776	128	64	✓	✓	–	50	–	✓	✓	3	✓	1	8	3	✓	1	–	–	–	–	1	–	1	1	1	–	1	10	6	1M	✓	0/0	0-33	✓	✓	I	64LQFP	P	
LM3S2793	128	64	✓	✓	–	80	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	–	–	–	2	–	3	2	2	✓	2	10	16	1M	✓	3/16	0-67	✓	✓	I	100LQFP 108BGA	S
LM3S2911	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	1	–	3	2	2	–	–	–	–	–	–	2/0	21-60	✓	✓	I/E	100LQFP 108BGA	P	
LM3S2918	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	1	–	2	2	2	–	1	10	8	500K	✓	2/0	15-52	✓	✓	I/E	100LQFP 108BGA	P	
LM3S2939	256	64	–	–	–	50	–	✓	✓	3	✓	1	4	1	✓	4	1	–	–	–	–	1	–	3	1	1	–	1	10	3	500K	✓	3/0	18-57	✓	✓	I/E	100LQFP 108BGA	P
LM3S2948	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	2	–	3	1	2	–	1	10	8	1M	✓	3/0	12-52	✓	✓	I/E	100LQFP 108BGA	P	

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Product Selector Guide (Continued)

Part Number	Memory					Core			Timers										External Peripheral Interface	Serial Interfaces										Analog						GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators									
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels	10/100 MAC+PHY		10/100 MAC with MII Interface							IEEE 1588	ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels			ADC Speed (samples per second)								
LM3S2950	256	64	–	–	–	50	–	✓	✓	✓	4	✓	1	6	1	✓	6	1	–	–	–	2	–	3	1	2	–	–	–	–	–	–	–	–	3/0	10-60	✓	✓	I/E	100LQFP 108BGA	P
LM3S2965	256	64	–	–	–	50	–	✓	✓	✓	4	✓	1	6	1	✓	6	2	–	–	–	2	–	3	2	2	–	1	10	4	1M	✓	3/0	3-56	✓	✓	I/E	100LQFP 108BGA	P		
LM3S2B93	256	96	✓	✓	–	80	✓	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	–	–	2	–	3	2	2	✓	2	10	16	1M	✓	3/16	0-67	✓	✓	I	100LQFP 108BGA	S		
LM3S3634	128	32	✓	✓	–	50	–	✓	✓	✓	3	✓	1	–	–	–	5	–	–	–	–	H	2	2	1	–	1	10	8	500K	✓	0/0	1-33	✓	✓	I	64LQFP	P			
LM3S3651	128	32	✓	✓	–	50	–	✓	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	O	1	1	1	–	1	10	4	500K	✓	2/0	0-33	✓	✓	I	64LQFP	P			
LM3S3739	128	64	✓	✓	–	50	–	✓	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	H	3	2	2	–	1	10	8	500K	✓	2/0	14-61	✓	✓	I	100LQFP	P			
LM3S3748	128	64	✓	✓	–	50	–	✓	✓	✓	4	✓	1	8	4	✓	8	1	–	–	–	H	2	2	2	–	1	10	8	1M	✓	2/0	3-61	✓	✓	I	100LQFP	P			
LM3S3749	128	64	✓	✓	–	50	–	✓	✓	✓	4	✓	1	8	4	✓	7	1	–	–	–	H	3	2	2	–	1	10	8	1M	✓	2/0	0-61	✓	✓	I	100LQFP	P			
LM3S3826	256	32	✓	✓	–	50	✓	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	D	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S			
LM3S3J26	128	20	✓	✓	–	50	✓	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	D	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S			
LM3S3N26	64	12	✓	✓	–	50	✓	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	D	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S			
LM3S3W26	32	8	✓	✓	–	50	✓	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	D	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S			
LM3S3Z26	16	6	✓	✓	–	50	✓	✓	✓	✓	3	✓	2	–	–	–	6	–	–	–	–	D	3	2	2	–	1	10	8	1M	✓	2/8	0-33	✓	✓	I	64LQFP	S			
LM3S5632	128	32	✓	✓	–	50	–	✓	✓	✓	3	✓	1	–	–	–	5	–	–	–	–	1	H	2	2	1	–	1	10	6	500K	✓	0/0	1-33	✓	✓	I	64LQFP	P		
LM3S5651	128	32	✓	✓	–	80	✓	✓	✓	✓	4	✓	2	6	4	✓	8	2	–	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	2/16	0-67	✓	✓	I	100LQFP 108BGA	S		

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Product Selector Guide (Continued)

Part Number	Memory					Core			Timers							External Peripheral Interface	Serial Interfaces								Analog						GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)			
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Motion Control					Ethernet		CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators									
												Watchdog	PWM ^d	PWM Fault	Dead-Band Generator		CCP	QEI Channels							10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588	ADC Units									ADC Resolution (10- or 12-bit)	ADC Channels	ADC Speed (samples per second)
LM3S5652	128	32	✓	✓	–	50	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	1	O	1	1	1	–	1	10	6	500K	✓	1/0	0-33	✓	✓	I	64LQFP	P	
LM3S5656	128	32	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	1	–	–	–	–	1	O	3	2	2	–	2	10	8	1M	✓	2/16	0-33	✓	✓	I	64LQFP	S
LM3S5662	128	32	✓	✓	–	50	–	✓	✓	3	✓	1	6	1	✓	5	–	–	–	–	1	O	1	–	1	–	1	10	4	500K	✓	0/0	0-33	✓	✓	I	64LQFP	P	
LM3S5732	128	64	✓	✓	–	50	–	✓	✓	3	✓	1	–	–	–	5	–	–	–	–	1	H	2	2	1	–	1	10	6	500K	✓	0/0	1-33	✓	✓	I	64LQFP	P	
LM3S5737	128	64	✓	✓	–	50	–	✓	✓	3	✓	1	–	–	–	3	–	–	–	–	1	H	1	2	2	–	1	10	8	500K	✓	0/0	27-61	✓	✓	I	100LQFP	P	
LM3S5739	128	64	✓	✓	–	50	–	✓	✓	4	✓	1	–	–	–	8	–	–	–	–	1	H	3	2	2	–	1	10	8	500K	✓	2/0	12-61	✓	✓	I	100LQFP	P	
LM3S5747	128	64	✓	✓	–	50	–	✓	✓	3	✓	1	6	1	✓	2	–	–	–	–	1	H	1	1	1	–	1	10	8	500K	✓	0/0	27-61	✓	✓	I	100LQFP	P	
LM3S5749	128	64	✓	✓	–	50	–	✓	✓	4	✓	1	8	4	✓	5	1	–	–	–	2	H	2	2	2	–	1	10	8	1M	✓	2/0	0-61	✓	✓	I	100LQFP	P	
LM3S5752	128	64	✓	✓	–	50	–	✓	✓	3	✓	1	–	–	–	6	–	–	–	–	1	O	1	1	1	–	1	10	6	500K	✓	1/0	0-33	✓	✓	I	64LQFP	P	
LM3S5762	128	64	✓	✓	–	50	–	✓	✓	3	✓	1	6	1	✓	5	–	–	–	–	1	O	1	–	1	–	1	10	4	500K	✓	0/0	0-33	✓	✓	I	64LQFP	P	
LM3S5791	128	64	✓	✓	–	80	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-72	–	✓	I	100LQFP 108BGA	S	
LM3S5951	256	64	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	2	–	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	2/16	0-67	✓	✓	I	100LQFP 108BGA	S	
LM3S5956	256	64	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	1	–	–	–	1	O	3	2	2	–	2	10	8	1M	✓	2/16	0-33	✓	✓	I	64LQFP	S	
LM3S5B91	256	96	✓	✓	–	80	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-72	–	✓	I	100LQFP 108BGA	S	
LM3S5K31	128	24	✓	✓	–	80	✓	✓	✓	3	✓	2	6	4	✓	6	2	–	–	–	1	D	3	2	2	–	2	10	16	1M	✓	2/16	0-67	✓	✓	I	100LQFP 108BGA	S	

a. Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

b. Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C.

c. USB options for Stellaris microcontrollers include Device Only (D) capability, Host/Device (H) capability, and On-The-Go/Host/Device capability (O).

d. PWM motion-control functionality can be achieved through dedicated motion control hardware (the PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.

Product Selector Guide (Continued)

Part Number	Memory					Core			Timers								Serial Interfaces										Analog						GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)		
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					External Peripheral Interface	Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC Units	ADC			Internal Temp Sensor							Analog/Digital Comparators	
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels		10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588																			
LM3S5K36	128	24	✓	✓	–	80	✓	✓	✓	3	✓	2	6	4	✓	6	1	–	–	–	–	1	D	3	2	2	–	2	10	8	1M	✓	2/16	0-33	✓	✓	I	64LQFP	S	
LM3S5P31	64	24	✓	✓	–	80	✓	✓	✓	3	✓	2	6	4	✓	6	2	–	–	–	–	1	D	3	2	2	–	2	10	16	1M	✓	2/16	0-67	✓	✓	I	100LQFP 108BGA	S	
LM3S5P36	64	24	✓	✓	–	80	✓	✓	✓	3	✓	2	6	4	✓	6	1	–	–	–	–	1	D	3	2	2	–	2	10	8	1M	✓	2/16	0-33	✓	✓	I	64LQFP	S	
LM3S5P51	64	24	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	2	–	–	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	2/16	0-67	✓	✓	I	100LQFP 108BGA	S	
LM3S5P56	64	24	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	1	–	–	–	–	1	O	3	2	2	–	2	10	8	1M	✓	2/16	0-33	✓	✓	I	64LQFP	S	
LM3S5R31	256	48	✓	✓	–	80	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	–	–	–	–	1	D	3	2	2	✓	2	10	16	1M	✓	2/16	0-67	✓	✓	I	100LQFP 108BGA	S
LM3S5R36	256	48	✓	✓	–	80	✓	✓	✓	4	✓	2	8	4	✓	8	1	–	–	–	–	1	D	3	2	2	–	2	10	8	1M	✓	2/16	0-33	✓	✓	I	64LQFP	S	
LM3S5T36	32	12	✓	✓	–	80	✓	✓	✓	3	✓	2	6	4	✓	6	1	–	–	–	–	1	D	3	2	2	–	2	10	8	1M	✓	2/16	0-33	✓	✓	I	64LQFP	S	
LM3S5Y36	16	8	✓	✓	–	80	✓	✓	✓	3	✓	2	6	4	✓	6	1	–	–	–	–	1	D	3	2	2	–	2	10	8	1M	✓	2/16	0-33	✓	✓	I	64LQFP	S	
LM3S6100	64	16	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	4	–	–	✓	–	–	–	–	1	–	1	–	–	–	–	–	–	1/0	10-30	–	✓	I/E	100LQFP 108BGA	P	
LM3S6110	64	16	–	–	–	25	–	✓	✓	3	✓	1	2	1	✓	4	–	–	✓	–	–	–	–	1	–	1	–	–	–	–	–	–	3/0	8-35	–	✓	I/E	100LQFP 108BGA	P	
LM3S6420	96	32	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	4	–	–	✓	–	–	–	–	1	–	1	–	–	–	–	–	–	2/0	23-46	–	✓	I/E	100LQFP 108BGA	P	

a. Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

b. Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C.

c. USB options for Stellaris microcontrollers include Device Only (D) capability, Host/Device (H) capability, and On-The-Go/Host/Device capability (O).

d. PWM motion-control functionality can be achieved through dedicated motion control hardware (the PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.

Product Selector Guide (Continued)

Part Number	Memory					Core			Timers										External Peripheral Interface	Serial Interfaces								Analog						GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators							
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels	10/100 MAC+PHY		10/100 MAC with MII Interface							IEEE 1588	ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels			ADC Speed (samples per second)						
LM3S6422	96	32	–	–	–	25	–	✓	✓	3	✓	1	–	–	–	4	–	–	✓	–	–	–	–	1	–	1	–	1	10	2	250K	✓	2/0	12-34	–	✓	I/E	100LQFP 108BGA	P
LM3S6432	96	32	–	–	–	50	–	✓	✓	3	✓	1	2	1	✓	4	–	–	✓	–	–	–	–	2	1	1	–	1	10	3	250K	✓	2/0	14-43	–	✓	I/E	100LQFP 108BGA	P
LM3S6537	96	64	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	6	–	–	✓	–	✓	–	–	2	1	1	–	1	10	4	500K	✓	2/0	6-41	✓	✓	I/E	100LQFP 108BGA	P
LM3S6610	128	32	–	–	–	25	–	✓	✓	4	✓	1	4	1	✓	6	1	–	✓	–	–	–	–	3	1	1	–	–	–	–	–	–	3/0	5-46	✓	✓	I/E	100LQFP 108BGA	P
LM3S6611	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	✓	–	–	–	–	3	2	2	–	–	–	–	–	–	2/0	10-46	✓	✓	I/E	100LQFP 108BGA	P
LM3S6618	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	✓	–	–	–	–	2	2	2	–	1	10	8	500K	✓	2/0	5-38	✓	✓	I/E	100LQFP 108BGA	P
LM3S6633	128	32	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	6	–	–	✓	–	–	–	–	2	1	1	–	1	10	3	500K	✓	1/0	15-41	✓	✓	I/E	100LQFP 108BGA	P
LM3S6637	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	✓	–	–	–	–	2	1	1	–	1	10	4	1M	✓	3/0	11-41	✓	✓	I/E	100LQFP 108BGA	P
LM3S6730	128	64	–	–	–	50	–	✓	✓	3	✓	1	–	–	–	4	–	–	✓	–	–	–	–	1	–	1	–	–	–	–	–	–	2/0	23-46	–	✓	I/E	100LQFP 108BGA	P
LM3S6753	128	64	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	4	1	–	✓	–	✓	–	–	2	1	1	–	1	10	4	500K	✓	2/0	5-41	✓	✓	I/E	100LQFP 108BGA	P

a. Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

b. Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C.

c. USB options for Stellaris microcontrollers include Device Only (D) capability, Host/Device (H) capability, and On-The-Go/Host/Device capability (O).

d. PWM motion-control functionality can be achieved through dedicated motion control hardware (the PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.

Product Selector Guide (Continued)

Part Number	Memory					Core			Timers										Serial Interfaces										Analog					GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					External Peripheral Interface	Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators						
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels		10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588							ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels	ADC Speed (samples per second)								
LM3S6911	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	✓	–	–	–	–	3	2	2	–	–	–	–	–	2/0	10-46	✓	✓	I/E	100LQFP 108BGA	P	
LM3S6918	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	✓	–	–	–	–	2	2	2	–	1	10	8	500K	✓	2/0	5-38	✓	✓	I/E	100LQFP 108BGA	P
LM3S6938	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	✓	–	–	–	–	3	1	1	–	1	10	8	1M	✓	3/0	7-38	✓	✓	I/E	100LQFP 108BGA	P
LM3S6950	256	64	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	6	1	–	✓	–	✓	–	–	3	1	2	–	–	–	–	–	3/0	1-46	✓	✓	I/E	100LQFP 108BGA	P	
LM3S6952	256	64	–	–	–	50	–	✓	✓	3	✓	1	4	1	✓	4	1	–	✓	–	–	–	–	3	1	1	–	1	10	3	500K	✓	3/0	6-43	✓	✓	I/E	100LQFP 108BGA	P
LM3S6965	256	64	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	4	2	–	✓	–	–	–	–	3	2	1	–	1	10	4	1M	✓	2/0	0-42	✓	✓	I/E	100LQFP 108BGA	P
LM3S8530	96	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	2	–	–	✓	–	–	3	–	1	1	2	–	–	–	–	–	0/0	8-35	–	✓	I/E	100LQFP 108BGA	P	
LM3S8538	96	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	4	–	–	✓	–	✓	1	–	2	1	1	–	1	10	8	1M	✓	3/0	7-36	–	✓	I/E	100LQFP 108BGA	P
LM3S8630	128	32	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	2	–	–	✓	–	–	1	–	2	1	1	–	–	–	–	–	0/0	10-31	✓	✓	I/E	100LQFP 108BGA	P	
LM3S8730	128	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	2	–	–	✓	–	✓	1	–	2	1	1	–	–	–	–	–	0/0	11-32	✓	✓	I/E	100LQFP 108BGA	P	

a. Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

b. Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C.

c. USB options for Stellaris microcontrollers include Device Only (D) capability, Host/Device (H) capability, and On-The-Go/Host/Device capability (O).

d. PWM motion-control functionality can be achieved through dedicated motion control hardware (the PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.

Product Selector Guide (Continued)

Part Number	Memory					Core			Timers										Serial Interfaces										Analog						GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control					External Peripheral Interface	Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators							
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels		10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588							ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels	ADC Speed (samples per second)									
LM3S8733	128	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	4	–	–	✓	–	–	1	–	2	1	1	–	1	10	4	500K	✓	3/0	5-35	✓	✓	I/E	100LQFP 108BGA	P	
LM3S8738	128	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	✓	–	–	1	–	3	1	2	–	1	10	8	500K	✓	1/0	4-38	✓	✓	I/E	100LQFP 108BGA	P	
LM3S8930	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	2	–	–	✓	–	–	2	–	1	1	1	–	–	–	–	–	0/0	13-34	✓	✓	I/E	100LQFP 108BGA	P		
LM3S8933	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	4	–	–	✓	–	✓	1	–	2	1	1	–	1	10	4	1M	✓	3/0	6-36	✓	✓	I/E	100LQFP 108BGA	P	
LM3S8938	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	6	–	–	✓	–	✓	1	–	3	2	1	–	1	10	8	1M	✓	3/0	3-38	✓	✓	I/E	100LQFP 108BGA	P	
LM3S8962	256	64	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	2	2	–	✓	–	✓	1	–	2	1	1	–	1	10	4	500K	✓	1/0	5-42	✓	✓	I/E	100LQFP 108BGA	P	
LM3S8970	256	64	–	–	–	50	–	✓	✓	4	✓	1	–	–	–	2	–	–	✓	–	✓	3	–	2	1	2	–	–	–	–	–	0/0	17-46	✓	✓	I/E	100LQFP 108BGA	P		
LM3S8971	256	64	–	–	–	50	–	✓	✓	4	✓	1	6	1	✓	6	1	–	✓	–	–	1	–	1	–	1	–	1	10	8	1M	✓	1/0	4-38	✓	✓	I/E	100LQFP 108BGA	P	
LM3S9781	128	64	✓	✓	–	80	✓	✓	✓	4	✓	2	–	–	–	8	–	✓	✓	–	–	3	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-65	–	✓	I	100LQFP 108BGA	S	
LM3S9790	128	64	✓	✓	–	80	✓	✓	✓	4	✓	2	–	–	–	8	–	✓	✓	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-60	✓	✓	I	100LQFP 108BGA	S	

a. Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

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Product Selector Guide (Continued)

Part Number	Memory					Core			Timers									External Peripheral Interface	Serial Interfaces										Analog					GPIOs (5-V tolerant) ^a	Battery-Backed Hibernation	LDO Voltage Regulator	Operating Temperature ^b	Package	Production (P) or Sampling (S)
	Flash (KB)	SRAM (KB)	ROM Software Libraries	DMA	SAFERTOS™	Max Speed (MHz)	Internal Precision Oscillator	MPU	SysTick (24-bit)	General-Purpose	Real-Time Clock (RTC)	Watchdog	Motion Control						Ethernet			CAN MAC	USB D, H, or O ^c	UART	I ² C	SSI/SPI	I ² S	ADC				Internal Temp Sensor	Analog/Digital Comparators						
													PWM ^d	PWM Fault	Dead-Band Generator	CCP	QEI Channels		10/100 MAC+PHY	10/100 MAC with MII Interface	IEEE 1588							ADC Units	ADC Resolution (10- or 12-bit)	ADC Channels	ADC Speed (samples per second)								
LM3S9792	128	64	✓	✓	–	80	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	✓	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-65	–	✓	I	100LQFP 108BGA	S
LM3S9997	256	64	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	2	–	✓	–	✓	2	O	3	2	2	✓	2	10	16	1M	✓	2/16	0-60	✓	✓	I	100LQFP 108BGA	S
LM3S9B81	256	96	✓	✓	–	80	✓	✓	✓	4	✓	2	–	–	–	8	–	✓	✓	–	–	3	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-65	–	✓	I	100LQFP 108BGA	S
LM3S9B90	256	96	✓	✓	–	80	✓	✓	✓	4	✓	2	–	–	–	8	–	✓	✓	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-60	✓	✓	I	100LQFP 108BGA	S
LM3S9B92	256	96	✓	✓	–	80	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	✓	–	–	2	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-65	–	✓	I	100LQFP 108BGA	S
LM3S9B95	256	96	✓	✓	–	80	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	✓	–	✓	2	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-65	–	✓	I	100LQFP 108BGA	S
LM3S9B96	256	96	✓	✓	✓	80	✓	✓	✓	4	✓	2	8	4	✓	8	2	✓	✓	–	✓	2	O	3	2	2	✓	2	10	16	1M	✓	3/16	0-65	–	✓	I	100LQFP 108BGA	S
LM3S9L97	128	48	✓	✓	–	80	✓	✓	✓	4	✓	2	6	4	✓	8	2	–	✓	–	✓	2	O	3	2	2	✓	2	10	16	1M	✓	2/16	0-60	✓	✓	I	100LQFP 108BGA	S

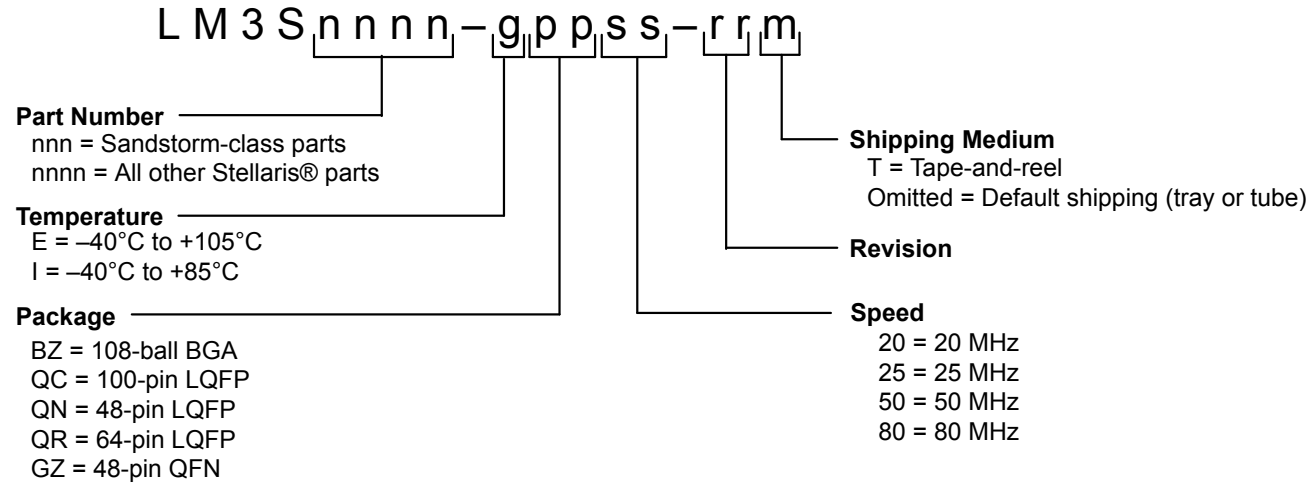
a. Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used. See data sheet for details.

b. Industrial (I) temperature is -40 to +85 °C and Extended (E) temperature is -40 to +105 °C.

c. USB options for Stellaris microcontrollers include Device Only (D) capability, Host/Device (H) capability, and On-The-Go/Host/Device capability (O).

d. PWM motion-control functionality can be achieved through dedicated motion control hardware (the PWM pins) or through the motion control features of the general-purpose timers (the CCP pins). See data sheet for details.

Full Part Number Decoder



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