



## Product Selector Guide

Part Number	Memory			Core			Timers						Serial Interfaces						Analog			Package								
	Flash (KB)	SRAM (KB)	Max Speed (MHz)	ARM® Cortex™-M3 Core	MPU	JTAG	SWO/SWD	System Tick Timer (24-bit)	Watchdog	General-Purpose External 32 KHz Clock	PWM <sup>b</sup>			Ethernet (10/100 MAC+PHY)	E1588 Support	CAN MAC	UART	I <sup>2</sup> C	SSI/SPI	QEI Channels	ADC (10-bit)		Internal Temp Sensor	Analog Comparators	GPIOs <sup>a</sup> (5-V tolerant)					
											PWM	Dead-Band Generator	CCP								ADC Channels					ADC Speed (samples per second)				
LM3S101	8	2	20	√	-	√	√	√	√	2	√	-	-	1	-	-	1	-	1	-	-	-	2	2-18	-	√	√	√	28-pin SOIC	
LM3S102	8	2	20	√	-	√	√	√	√	2	√	-	-	2	-	-	1	1	1	-	-	-	1	0-18	-	√	√	√	28-pin SOIC	
LM3S300	16	4	25	√	√	√	√	√	√	3	√	-	-	6	-	-	2	1	1	-	-	-	3	8-36	-	√	√	√	48-pin LQFP	
LM3S301	16	2	20	√	√	√	√	√	√	2	√	2	√	2	-	-	1	-	1	-	3	250K	√	2	12-33	-	√	√	√	48-pin LQFP
LM3S308	16	4	25	√	√	√	√	√	√	3	√	-	-	6	-	-	2	1	1	-	8	500K	√	1	5-28	-	√	√	√	48-pin LQFP
LM3S310	16	4	25	√	√	√	√	√	√	3	√	6	√	6	-	-	2	-	1	-	-	-	3	3-36	-	√	√	√	48-pin LQFP	
LM3S315	16	4	25	√	√	√	√	√	√	3	√	2	√	6	-	-	2	-	1	-	4	250K	√	1	7-32	-	√	√	√	48-pin LQFP
LM3S316	16	4	25	√	√	√	√	√	√	3	√	4	√	6	-	-	2	1	1	-	4	250K	√	1	3-32	-	√	√	√	48-pin LQFP
LM3S317	16	4	25	√	√	√	√	√	√	3	√	6	√	6	-	-	1	-	1	-	6	250K	√	1	3-30	-	√	√	√	48-pin LQFP
LM3S328	16	4	25	√	√	√	√	√	√	3	√	-	-	6	-	-	2	1	1	-	8	500K	√	-	7-28	-	√	√	√	48-pin LQFP
LM3S600	32	8	50	√	√	√	√	√	√	3	√	-	-	6	-	-	2	1	1	-	-	-	3	8-36	-	√	√	√	48-pin LQFP	
LM3S601	32	8	50	√	√	√	√	√	√	3	√	6	√	6	-	-	2	1	1	1	-	-	3	0-36	-	√	√	√	48-pin LQFP	
LM3S608	32	8	50	√	√	√	√	√	√	3	√	-	-	6	-	-	2	1	1	-	8	500K	√	1	5-28	-	√	√	√	48-pin LQFP
LM3S610	32	8	50	√	√	√	√	√	√	3	√	6	√	6	-	-	2	1	1	-	2	500K	√	-	6-34	-	√	√	√	48-pin LQFP
LM3S611	32	8	50	√	√	√	√	√	√	3	√	6	√	6	-	-	2	1	1	-	4	500K	√	-	4-32	-	√	√	√	48-pin LQFP
LM3S612	32	8	50	√	√	√	√	√	√	3	√	2	√	6	-	-	2	1	1	-	2	500K	√	1	7-34	-	√	√	√	48-pin LQFP
LM3S613	32	8	50	√	√	√	√	√	√	3	√	4	√	6	-	-	2	1	1	-	4	500K	√	1	3-32	-	√	√	√	48-pin LQFP



## Product Selector Guide (Continued)

Part Number	Memory			Core				Timers						Serial Interfaces						Analog			GPIOs <sup>a</sup> (5-V tolerant)	Battery-Backed Hibernation Module	Brown-Out Reset	LDO Voltage Regulator	Operating Temperature Range (-40 to +85 °C)	Package		
	Flash (KB)	SRAM (KB)	Max Speed (MHz)	ARM® Cortex™-M3 Core	MPU	JTAG	SWO/SWD	System Tick Timer (24-bit)	Watchdog	General-Purpose External 32 KHz Clock	PWM <sup>b</sup>			Ethernet (10/100 MAC+PHY)	E1588 Support	CAN MAC	UART	I <sup>2</sup> C	SSI/SPI	QEI Channels	ADC (10-bit)								Internal Temp Sensor	Analog Comparators
											PWM	Dead-Band Generator	CCP								ADC Channels	ADC Speed (samples per second)								
LM3S615	32	8	50	✓	✓	✓	✓	✓	3	✓	6	✓	6	-	-	-	2	1	1	-	2	500K	✓	3	0-34	-	✓	✓	✓	48-pin LQFP
LM3S617	32	8	50	✓	✓	✓	✓	✓	3	✓	6	✓	6	-	-	-	2	-	1	-	6	500K	✓	1	1-30	-	✓	✓	✓	48-pin LQFP
LM3S618	32	8	50	✓	✓	✓	✓	✓	3	✓	6	✓	4	-	-	-	2	-	1	1	6	500K	✓	1	0-30	-	✓	✓	✓	48-pin LQFP
LM3S628	32	8	50	✓	✓	✓	✓	✓	3	✓	-	-	4	-	-	-	2	1	1	-	8	1M	✓	-	9-28	-	✓	✓	✓	48-pin LQFP
LM3S800	64	8	50	✓	✓	✓	✓	✓	3	✓	-	-	6	-	-	-	2	1	1	-	-	-	-	3	8-36	-	✓	✓	✓	48-pin LQFP
LM3S801	64	8	50	✓	✓	✓	✓	✓	3	✓	6	✓	6	-	-	-	2	1	1	1	-	-	-	3	0-36	-	✓	✓	✓	48-pin LQFP
LM3S808	64	8	50	✓	✓	✓	✓	✓	3	✓	-	-	6	-	-	-	2	1	1	-	8	500K	✓	1	5-28	-	✓	✓	✓	48-pin LQFP
LM3S811	64	8	50	✓	✓	✓	✓	✓	3	✓	6	✓	6	-	-	-	2	1	1	-	4	500K	✓	1	1-32	-	✓	✓	✓	48-pin LQFP
LM3S812	64	8	50	✓	✓	✓	✓	✓	3	✓	2	✓	6	-	-	-	2	1	1	-	2	250K	✓	1	7-34	-	✓	✓	✓	48-pin LQFP
LM3S815	64	8	50	✓	✓	✓	✓	✓	3	✓	6	✓	6	-	-	-	2	1	1	-	2	500K	✓	3	0-34	-	✓	✓	✓	48-pin LQFP
LM3S817	64	8	50	✓	✓	✓	✓	✓	3	✓	6	✓	6	-	-	-	2	-	1	-	6	1M	✓	1	1-30	-	✓	✓	✓	48-pin LQFP
LM3S818	64	8	50	✓	✓	✓	✓	✓	3	✓	6	✓	4	-	-	-	2	-	1	1	6	1M	✓	1	0-30	-	✓	✓	✓	48-pin LQFP
LM3S828	64	8	50	✓	✓	✓	✓	✓	3	✓	-	-	6	-	-	-	2	1	1	-	8	1M	✓	-	7-28	-	✓	✓	✓	48-pin LQFP
LM3S1110	64	16	25	✓	✓	✓	✓	✓	3	✓	-	-	2	-	-	-	2	-	1	-	-	-	-	2	20-41	✓	✓	✓	✓	100-pin LQFP
LM3S1133	64	16	50	✓	✓	✓	✓	✓	4	✓	2	✓	8	-	-	-	3	1	2	-	2	250K	✓	1	9-44	✓	✓	✓	✓	100-pin LQFP
LM3S1138	64	16	50	✓	✓	✓	✓	✓	4	✓	-	-	6	-	-	-	3	2	2	-	8	1M	✓	3	9-46	✓	✓	✓	✓	100-pin LQFP
LM3S1150	64	16	50	✓	✓	✓	✓	✓	4	✓	6	✓	6	-	-	-	3	1	2	1	-	-	-	3	7-52	✓	✓	✓	✓	100-pin LQFP



## Product Selector Guide (Continued)

Part Number	Memory			Core				Timers						Serial Interfaces						Analog			GPIOs <sup>a</sup> (5-V tolerant)	Battery-Backed Hibernation Module	Brown-Out Reset	LDO Voltage Regulator	Operating Temperature Range (-40 to +85 °C)	Package		
	Flash (KB)	SRAM (KB)	Max Speed (MHz)	ARM® Cortex™-M3 Core	MPU	JTAG	SWO/SWD	System Tick Timer (24-bit)	Watchdog	General-Purpose External 32 KHz Clock	PWM <sup>b</sup>			Ethernet (10/100 MAC+PHY)	E1588 Support	CAN MAC	UART	I <sup>2</sup> C	SSI/SPI	QEI Channels	ADC (10-bit)								Internal Temp Sensor	Analog Comparators
											PWM	Dead-Band Generator	CCP								ADC Channels	ADC Speed (samples per second)								
LM3S1162	64	16	50	√	√	√	√	√	4	√	6	√	6	-	-	-	3	1	2	-	2	500K	√	3	4-46	√	√	√	√	100-pin LQFP
LM3S1165	64	16	50	√	√	√	√	√	4	√	6	√	8	-	-	-	3	1	2	-	4	500K	√	1	4-43	√	√	√	√	100-pin LQFP
LM3S1332	96	16	50	√	√	√	√	√	4	√	-	-	8	-	-	-	2	-	1	-	3	250K	√	3	29-57	√	√	√	√	100-pin LQFP
LM3S1435	96	32	50	√	√	√	√	√	3	√	2	√	4	-	-	-	2	1	1	-	2	500K	√	1	21-46	√	√	√	√	100-pin LQFP
LM3S1439	96	32	50	√	√	√	√	√	3	√	6	√	6	-	-	-	2	1	2	1	4	500K	√	1	14-52	√	√	√	√	100-pin LQFP
LM3S1512	96	64	25	√	√	√	√	√	4	√	-	-	8	-	-	-	3	2	2	1	2	250K	√	3	15-58	√	√	√	√	100-pin LQFP
LM3S1538	96	64	50	√	√	√	√	√	4	√	-	-	8	-	-	-	3	2	2	1	8	500K	√	-	9-43	√	√	√	√	100-pin LQFP
LM3S1601	128	32	50	√	√	√	√	√	4	√	-	-	8	-	-	-	3	2	2	-	-	-	-	2	23-60	√	√	√	√	100-pin LQFP
LM3S1608	128	32	50	√	√	√	√	√	4	√	-	-	8	-	-	-	2	2	2	-	8	500K	√	2	17-52	√	√	√	√	100-pin LQFP
LM3S1620	128	32	25	√	√	√	√	√	3	√	6	√	4	-	-	-	2	1	2	1	-	-	-	3	11-52	√	√	√	√	100-pin LQFP
LM3S1635	128	32	50	√	√	√	√	√	4	√	6	√	8	-	-	-	3	2	2	-	4	500K	√	2	12-56	√	√	√	√	100-pin LQFP
LM3S1637	128	32	50	√	√	√	√	√	4	√	6	√	6	-	-	-	3	1	1	1	4	1M	√	1	7-43	√	√	√	√	100-pin LQFP
LM3S1751	128	64	50	√	√	√	√	√	3	√	4	√	6	-	-	-	3	1	2	-	4	500K	√	1	21-56	√	√	√	√	100-pin LQFP
LM3S1850	256	32	50	√	√	√	√	√	3	√	6	√	6	-	-	-	2	1	1	1	-	-	-	3	17-56	√	√	√	√	100-pin LQFP
LM3S1911	256	64	50	√	√	√	√	√	4	√	-	-	8	-	-	-	3	2	2	-	-	-	-	2	23-60	√	√	√	√	100-pin LQFP
LM3S1918	256	64	50	√	√	√	√	√	4	√	-	-	8	-	-	-	2	2	2	-	8	500K	√	2	17-52	√	√	√	√	100-pin LQFP
LM3S1937	256	64	50	√	√	√	√	√	3	√	6	√	4	-	-	-	2	1	1	-	4	1M	√	1	27-56	√	√	√	√	100-pin LQFP



## Product Selector Guide (Continued)

Part Number	Memory			Core				Timers						Serial Interfaces						Analog			GPIOs <sup>a</sup> (5-V tolerant)	Battery-Backed Hibernation Module	Brown-Out Reset	LDO Voltage Regulator	Operating Temperature Range (-40 to +85 °C)	Package							
	Flash (KB)	SRAM (KB)	Max Speed (MHz)	ARM® Cortex™-M3 Core	MPU	JTAG	SWO/SWD	System Tick Timer (24-bit)	Watchdog	General-Purpose External 32 KHz Clock	PWM <sup>b</sup>			Ethernet (10/100 MAC+PHY)	E1588 Support	CAN MAC	UART	I <sup>2</sup> C	SSI/SPI	QEI Channels	ADC (10-bit)								Internal Temp Sensor	Analog Comparators					
											PWM	Dead-Band Generator	CCP								ADC Channels	ADC Speed (samples per second)													
LM3S1958	256	64	50	✓	✓	✓	✓	✓	4	✓	-	-	8	-	-	-	3	2	2	-	8	1M	✓	-	21-52	✓	✓	✓	✓	100-pin LQFP					
LM3S1960	256	64	50	✓	✓	✓	✓	✓	4	✓	6	✓	8	-	-	-	3	2	2	2	-	-	3	7-60	✓	✓	✓	✓	100-pin LQFP						
LM3S1968	256	64	50	✓	✓	✓	✓	✓	4	✓	6	✓	4	-	-	-	3	2	2	2	8	1M	✓	3	5-52	✓	✓	✓	✓	100-pin LQFP					
LM3S2110	64	16	25	✓	✓	✓	✓	✓	3	✓	2	✓	4	-	-	1	1	1	1	-	-	-	3	11-40	-	✓	✓	✓	✓	100-pin LQFP					
LM3S2139	64	16	25	✓	✓	✓	✓	✓	3	✓	-	-	6	-	-	1	2	1	1	-	4	250K	✓	3	26-56	-	✓	✓	✓	✓	100-pin LQFP				
LM3S2410	96	32	25	✓	✓	✓	✓	✓	3	✓	-	-	4	-	-	1	1	-	1	-	-	-	2	37-60	-	✓	✓	✓	✓	100-pin LQFP					
LM3S2412	96	32	25	✓	✓	✓	✓	✓	3	✓	2	✓	4	-	-	1	2	1	1	-	3	250K	✓	2	20-49	-	✓	✓	✓	✓	100-pin LQFP				
LM3S2432	96	32	50	✓	✓	✓	✓	✓	3	✓	2	✓	4	-	-	1	2	1	1	-	3	250K	✓	2	5-34	-	✓	✓	✓	✓	100-pin LQFP				
LM3S2533	96	64	50	✓	✓	✓	✓	✓	4	✓	6	✓	6	-	-	1	2	1	1	-	3	250K	✓	3	11-48	✓	✓	✓	✓	✓	100-pin LQFP				
LM3S2601	128	32	50	✓	✓	✓	✓	✓	4	✓	-	-	8	-	-	1	3	2	2	-	-	-	2	21-60	✓	✓	✓	✓	✓	✓	100-pin LQFP				
LM3S2608	128	32	50	✓	✓	✓	✓	✓	4	✓	-	-	8	-	-	1	2	2	2	-	8	500K	✓	2	15-52	✓	✓	✓	✓	✓	✓	100-pin LQFP			
LM3S2620	128	32	25	✓	✓	✓	✓	✓	4	✓	4	✓	6	-	-	2	1	1	1	1	-	-	3	12-52	✓	✓	✓	✓	✓	✓	✓	100-pin LQFP			
LM3S2637	128	32	50	✓	✓	✓	✓	✓	4	✓	-	-	6	-	-	1	2	1	1	-	4	500K	✓	3	15-46	✓	✓	✓	✓	✓	✓	✓	100-pin LQFP		
LM3S2651	128	32	50	✓	✓	✓	✓	✓	4	✓	4	✓	6	-	-	1	3	1	2	-	4	500K	✓	1	16-53	✓	✓	✓	✓	✓	✓	✓	100-pin LQFP		
LM3S2730	128	64	50	✓	✓	✓	✓	✓	3	✓	-	-	4	-	-	1	1	-	1	-	-	-	2	37-60	-	✓	✓	✓	✓	✓	✓	✓	✓	100-pin LQFP	
LM3S2739	128	64	50	✓	✓	✓	✓	✓	3	✓	6	✓	6	-	-	1	2	1	1	1	4	500K	✓	1	20-56	✓	✓	✓	✓	✓	✓	✓	✓	✓	100-pin LQFP
LM3S2911	256	64	50	✓	✓	✓	✓	✓	4	✓	-	-	8	-	-	1	3	2	2	-	-	-	2	21-60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100-pin LQFP



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Part Number	Memory			Core			Timers						Serial Interfaces						Analog			GPIOs <sup>a</sup> (5-V tolerant)	Battery-Backed Hibernation Module	Brown-Out Reset	LDO Voltage Regulator	Operating Temperature Range (-40 to +85 °C)	Package			
	Flash (KB)	SRAM (KB)	Max Speed (MHz)	ARM® Cortex™-M3 Core	MPU	JTAG	SWO/SWD	System Tick Timer (24-bit)	Watchdog	General-Purpose External 32 KHz Clock	PWM <sup>b</sup>			Ethernet (10/100 MAC+PHY)	E1588 Support	CAN MAC	UART	I <sup>2</sup> C	SSI/SPI	QEI Channels	ADC (10-bit)							Internal Temp Sensor	Analog Comparators	
											PWM	Dead-Band Generator	CCP								ADC Channels									ADC Speed (samples per second)
LM3S2918	256	64	50	√	√	√	√	√	4	√	-	-	8	-	-	1	2	2	2	-	8	500K	√	2	15-52	√	√	√	√	100-pin LQFP
LM3S2939	256	64	50	√	√	√	√	√	3	√	4	√	4	-	-	1	3	1	1	1	3	500K	√	3	18-57	√	√	√	√	100-pin LQFP
LM3S2948	256	64	50	√	√	√	√	√	4	√	-	-	8	-	-	2	3	1	2	-	8	1M	√	3	12-52	√	√	√	√	100-pin LQFP
LM3S2950	256	64	50	√	√	√	√	√	4	√	6	√	6	-	-	2	3	1	2	1	-	-	-	3	10-60	√	√	√	√	100-pin LQFP
LM3S2965	256	64	50	√	√	√	√	√	4	√	6	√	6	-	-	2	3	2	2	2	4	1M	√	3	3-56	√	√	√	√	100-pin LQFP
LM3S6100	64	16	25	√	√	√	√	√	3	√	-	-	4	√	-	-	1	-	1	-	-	-	-	1	10-30	-	√	√	√	100-pin LQFP
LM3S610	32	8	50	√	√	√	√	√	3	√	6	√	6	-	-	-	2	1	1	-	2	500K	√	-	6-34	-	√	√	√	48-pin LQFP
LM3S6110	64	16	25	√	√	√	√	√	3	√	2	√	4	√	-	-	1	-	1	-	-	-	-	3	8-35	-	√	√	√	100-pin LQFP
LM3S6420	96	32	25	√	√	√	√	√	3	√	-	-	4	√	-	-	1	-	1	-	-	-	-	2	23-46	-	√	√	√	100-pin LQFP
LM3S6422	96	32	25	√	√	√	√	√	3	√	-	-	4	√	-	-	1	-	1	-	2	250K	√	2	12-34	-	√	√	√	100-pin LQFP
LM3S6432	96	32	50	√	√	√	√	√	3	√	2	√	4	√	-	-	2	1	1	-	3	250K	√	2	14-43	-	√	√	√	100-pin LQFP
LM3S6537	96	64	50	√	√	√	√	√	4	√	6	√	6	√	√	-	2	1	1	-	4	500K	√	2	6-41	√	√	√	√	100-pin LQFP
LM3S6610	128	32	25	√	√	√	√	√	4	√	4	√	6	√	-	-	3	1	1	1	-	-	-	3	5-46	√	√	√	√	100-pin LQFP
LM3S6611	128	32	50	√	√	√	√	√	4	√	-	-	6	√	-	-	3	2	2	-	-	-	-	2	10-46	√	√	√	√	100-pin LQFP
LM3S6618	128	32	50	√	√	√	√	√	4	√	-	-	6	√	-	-	2	2	2	-	8	500K	√	2	5-38	√	√	√	√	100-pin LQFP
LM3S6633	128	32	50	√	√	√	√	√	3	√	-	-	6	√	-	-	2	1	1	-	3	500K	√	1	15-41	√	√	√	√	100-pin LQFP
LM3S6637	128	32	50	√	√	√	√	√	4	√	-	-	6	√	-	-	2	1	1	-	4	1M	√	3	11-41	√	√	√	√	100-pin LQFP



## Product Selector Guide (Continued)

Part Number	Memory			Core			Timers						Serial Interfaces						Analog			GPIOs <sup>a</sup> (5-V tolerant)	Battery-Backed Hibernation Module	Brown-Out Reset	LDO Voltage Regulator	Operating Temperature Range (-40 to +85 °C)	Package				
	Flash (KB)	SRAM (KB)	Max Speed (MHz)	ARM® Cortex™-M3 Core	MPU	JTAG	SWO/SWD	System Tick Timer (24-bit)	Watchdog	General-Purpose External 32 KHz Clock	PWM <sup>b</sup>			Ethernet (10/100 MAC+PHY)	E1588 Support	CAN MAC	UART	I <sup>2</sup> C	SSI/SPI	QEI Channels	ADC (10-bit)							Internal Temp Sensor	Analog Comparators		
											PWM	Dead-Band Generator	CCP								ADC Channels									ADC Speed (samples per second)	
LM3S6730	128	64	50	√	√	√	√	√	3	√	-	-	4	√	-	-	1	-	1	-	-	-	-	2	23-46	-	√	√	√	√	100-pin LQFP
LM3S6753	128	64	50	√	√	√	√	√	4	√	6	√	4	√	√	-	2	1	1	1	4	500K	√	2	5-41	√	√	√	√	√	100-pin LQFP
LM3S6911	256	64	50	√	√	√	√	√	4	√	-	-	6	√	-	-	3	2	2	-	-	-	-	2	10-46	√	√	√	√	√	100-pin LQFP
LM3S6918	256	64	50	√	√	√	√	√	4	√	-	-	6	√	-	-	2	2	2	-	8	500K	√	2	5-38	√	√	√	√	√	100-pin LQFP
LM3S6938	256	64	50	√	√	√	√	√	4	√	-	-	6	√	-	-	3	1	1	-	8	1M	√	3	7-38	√	√	√	√	√	100-pin LQFP
LM3S6950	256	64	50	√	√	√	√	√	4	√	6	√	6	√	√	-	3	1	2	1	-	-	-	3	1-46	√	√	√	√	√	100-pin LQFP
LM3S6952	256	64	50	√	√	√	√	√	3	√	4	√	4	√	-	-	3	1	1	1	3	500K	√	3	6-43	√	√	√	√	√	100-pin LQFP
LM3S6965	256	64	50	√	√	√	√	√	4	√	6	√	4	√	-	-	3	2	1	2	4	1M	√	2	0-42	√	√	√	√	√	100-pin LQFP
LM3S8530	96	64	50	√	√	√	√	√	4	√	-	-	2	√	-	3	1	1	2	-	-	-	-	-	8-35	-	√	√	√	√	100-pin LQFP
LM3S8538	96	64	50	√	√	√	√	√	4	√	-	-	4	√	√	1	2	1	1	-	8	1M	√	3	7-36	-	√	√	√	√	100-pin LQFP
LM3S8630	128	32	50	√	√	√	√	√	4	√	-	-	2	√	-	1	2	1	1	-	-	-	-	-	10-31	√	√	√	√	√	100-pin LQFP
LM3S8730	128	64	50	√	√	√	√	√	4	√	-	-	2	√	√	1	2	1	1	-	-	-	-	-	11-32	√	√	√	√	√	100-pin LQFP
LM3S8733	128	64	50	√	√	√	√	√	4	√	-	-	4	-	-	1	2	1	1	-	4	500K	√	3	5-35	√	√	√	√	√	100-pin LQFP
LM3S8738	128	64	50	√	√	√	√	√	4	√	-	-	6	√	-	1	3	1	2	-	8	500K	√	1	4-38	√	√	√	√	√	100-pin LQFP
LM3S8930	256	64	50	√	√	√	√	√	4	√	-	-	2	√	-	2	1	1	1	-	-	-	-	-	13-34	√	√	√	√	√	100-pin LQFP
LM3S8933	256	64	50	√	√	√	√	√	4	√	-	-	4	√	√	1	2	1	1	-	4	1M	√	3	6-36	√	√	√	√	√	100-pin LQFP
LM3S8938	256	64	50	√	√	√	√	√	4	√	-	-	6	√	√	1	3	2	1	-	8	1M	√	3	3-38	√	√	√	√	√	100-pin LQFP



## Product Selector Guide (Continued)

Part Number	Memory			Core			Timers						Serial Interfaces						Analog			GPIOs <sup>a</sup> (5-V tolerant)	Battery-Backed Hibernation Module	Brown-Out Reset	LDO Voltage Regulator	Operating Temperature Range (-40 to +85 °C)	Package				
	Flash (KB)	SRAM (KB)	Max Speed (MHz)	ARM® Cortex™-M3 Core	MPU	JTAG	SWO/SWD	System Tick Timer (24-bit)	Watchdog	General-Purpose	External 32 KHz Clock	PWM <sup>b</sup>			Ethernet (10/100 MAC+PHY)	E1588 Support	CAN MAC	UART	I <sup>2</sup> C	SSI/SPI	QEI Channels							ADC (10-bit)		Internal Temp Sensor	Analog Comparators
												PWM	Dead-Band Generator	CCP														ADC Channels	ADC Speed (samples per second)		
LM3S8962	256	64	50	√	√	√	√	√	√	4	√	6	√	2	√	√	1	2	1	1	2	4	500K	√	1	5-42	√	√	√	√	100-pin LQFP
LM3S8970	256	64	50	√	√	√	√	√	√	4	√	-	-	2	√	√	3	2	1	2	-	-	-	-	-	17-46	√	√	√	√	100-pin LQFP
LM3S8971	256	64	50	√	√	√	√	√	√	4	√	6	√	6	√	-	1	1	-	1	1	8	1M	√	1	4-38	√	√	√	I	100-pin LQFP

- 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. 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.

Luminary Micro, Inc. • 108 Wild Basin, Suite 350 • Austin, TX 78746  
 Main: +1-512-279-8800 • Fax: +1-512-279-8879 • <http://www.luminarymicro.com> • [sales@luminarymicro.com](mailto:sales@luminarymicro.com)

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