

STMICROELECTRONICS Microcontrollers



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STM8L ULTRA-LOW-POWER 8-BIT

STMicroelectronics has introduced its first ultra-low-power family based on the 8-bit STM8 core. Paving the way for a future complete ultra-low-power platform, the STM8L family combines high performance and ultra-low-power consumption thanks to a new proprietary ultra-low-leakage process and optimized architecture. This family is defined in three different lines making the STM8L an optimal family to support many applications with special care on power savings.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package Type	Prog. Mem.	Memory Type	RAM	A/D Inputs	Timers	Serial Interface	I/Os (HI-Curr)	Special Features	Price Each		
Mfr.	Mfr. Part No.										1	10	100
511	—STM8L101F2P6	TSSOP-20	4K	Flash	1.5K	-----	2x16-bit, 1x8-bit	SPI, I2C, USART	18 (16)	IWD, AWU, beeper	1.53	1.37	1.19
511	—STM8L101F3U6ATR	UFQFPN-20	8K	Flash	1.5K	-----	2x16-bit, 1x8-bit	SPI, I2C, USART	18 (16)	IWD, AWU, beeper	1.71	1.54	1.33
511	—STM8L101K3T6	LQFP-32	8K	Flash	1.5K	21x12-Bit	2x16-bit, 1x8-bit	SPI, I2C, USART	18 (16)	IWD, AWU, beeper	2.03	1.82	1.57
511	—STM8L151C6T6	LQFP-48	32K	Flash	2K	25x12-Bit	3x16-bit, 1x8-bit	SPI, I2C, USART (IrDA,ISO7816)	41 (39)	2xWDOG, AWU, RTC, beeper	2.91	2.61	2.26
511	—STM8L152C6T6	LQFP-48	32K	Flash	2K	25x12-Bit	3x16-bit, 1x8-bit	SPI, I2C, USART (IrDA,ISO7816)	41 (39)	2xWDOG, AWU, RTC, beeper	3.16	2.87	2.29

STM8L DEVELOPMENT BOARDS

MOUSER STOCK NO.	Description	Price Each
511—STM8L-DISCOVERY	For the STM8L152C6T6 which includes ST-Link embedded debug tool interface, LCD (24 segments, 4 commons), LEDs and push buttons.	11.29
511—STM8L1526-EVAL	For STM8L152C6 which supports I2C, SPI, USART, 12-bit ADC, 12-bit DAC, LCD driver, 2KB internal SRAM, 32 KB EEPROM and SWIM debugging.	198.75
511—STM8L15LPBOARD	Low-power demo board demonstrates all the STM8L15x low-power modes, and permits the user to take consumption measurements in all modes.	48.75
511—STM8L1526PRIMER	EvoPrimer STM8L Ultralow power line complete evaluation tool including base and target board with 32KB Flash, program/debug USB port, 3 character display, 8 segments, temperature sensor, MEMS accelerometer, rechargeable battery, solar cells, and push buttons.	98.75
511—STM8L1526PRIM-D	STMPRIMER accessory including 32KB flash for the STM8L MCU target boards for use with the EvoPrimer base.	23.75

STM8S GENERAL PURPOSE 8-BIT

The STM8S family of general-purpose 8-bit Flash microcontrollers offers ideal solutions for industrial and appliance market requirements. An advanced core version combined with a 3-stage pipeline ranks the STM8S in the top position for performance to cost ratio. The embedded EEPROM and the calibrated RC oscillator allow a significant cost effectiveness. An easy-to-use and intuitive development environment contributes improving time to market.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package Type	Prog. Mem.	Memory Type	RAM	A/D Inputs	Timers	Serial Interface	I/Os (HI-Curr)	Special Features	Price Each		
Mfr.	Mfr. Part No.										1	10	100
511	—STM8S105C6T6	LQFP-48	32K	Flash	2K	10x10-bit	3x16-bit, 1x8-bit	SPI, I2C, UART (IrDA,ISO7816)	38 (16)	2xWDOG, beep	2.30	2.06	1.78
511	—STM8S207CBT6	LQFP-48	128K	Flash	6K	16x10-bit	3x16-bit, 1x8-bit	SPI, I2C, 2xUART (IrDA,ISO7816)	38 (16)	2xWDOG, beep	3.09	2.75	2.26
511	—STM8S207RBT6	LQFP-64	128K	Flash	6K	16x10-bit	3x16-bit, 1x8-bit	SPI, I2C, 2xUART (IrDA,ISO7816)	52 (16)	2xWDOG, beep	3.82	3.41	2.79

STM8S DEVELOPMENT BOARDS



MOUSER STOCK NO.	Description	Price Each
511—STM8S-DISCOVERY	For the STM8S105 which includes ST-Link embedded debug tool interface, and touch sensing button.	9.60
511—STM8SVL-DISCOVERY	For the STM8S003K3T6 which includes ST-Link embedded debug tool interface and user button	7.00
511—ST-EVAL-ILM001V1	Plug-in hardware module for the STM8S-DISCOVERY interface for DALI communication	56.25

STR9 SERIES ARM9E™ CORE, 32-BIT

MOUSER STOCK NO.		Package Type	Prog. Mem.	RAM	A/D Inputs	Timers	Serial Interface	I/Os (HI-Curr)	Special Features	Price Each		
Mfr.	Mfr. Part No.									1	10	100
Surface Mount												
511	—STR910FAW32X6	LQFP-128	256K	64K	8x10-bit	7x16-bit	CAN/3xUART/2xFastI2C/2xSPI	80 (16)	WDG, 1µA RTC	12.58	11.57	9.81
511	—STR912FAW44X6	TQFP-128	512K	96K	8x10-bit	7x16-bit	Ethernet/USB/CAN/3xUART/2xFastI2C/2xSPI	80 (16)	WDG, 1µA RTC	16.50	14.98	12.71

STR9 DEVELOPMENT BOARDS AND STARTER KITS

MOUSER STOCK NO.	Description	Price Each
511—STR91X-SK/KEI	Keil Starter Kit For STM32, STR9, and STR7 Arm Core-based families of microcontrollers	248.75
511—STR91X-SK/HIT	Hitex Starter Kit with STR912 evaluation board, USB-JTAG in-circuit debugger, 16kb code-size	248.75

ST10 GENERAL PURPOSE CONTROL 16-BIT

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package Type	Prog. Mem.	Memory Type	RAM	E2PROM	A/D Inputs	Timers	I/Os (HI-Curr)	Price Each		
Mfr.	Mfr. Part No.									1	10	100
511	—ST10F2692Q3	PQFP-144	256	12	5.5	16x10-bit	8x16-bit	111	USART, SSC, 2xCANS	37.13	34.61	30.10

POWER ARCHITECTURE® AUTOMOTIVE, 32-BIT



This 32-bit system-on-chip (SoC) automotive microcontroller family is the latest achievement in integrated automotive application controllers. It belongs to an expanding range of automotive-focused products designed to address chassis applications—specifically, electrical hydraulic power steering (EHPS) and electric power steering (EPS)—as well as airbag applications.

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MOUSER STOCK NO.		Package Type	Prog. Mem.	Clock Frequency (MHz)	A/D Inputs	Timers	I/Os	Price Each			
Mfr.	Mfr. Part No.							1	10	100	250
Thru Hole											
511	—SPC560B40L5C6E0X	LQFP-144	256KB	64	36x10-bit	6x32-bit	56 (16)	14.70	13.72	12.25	10.29
511	—SPC560B50L5C6E0X	LQFP-144	512KB	64	36x10-bit	6x32-bit	56 (16)	12.60	11.76	10.50	8.82
511	—SPC563M64L5COAR	LQFP-144	1.5MB	80	34x3-bit	1x32-bit	14 (16)	31.50	29.40	26.25	22.05
511	—SPC560B50L3C6E0X	LQFP-100	512KB	64	36x10-bit	6x32-bit	56 (16)	12.90	12.04	10.75	9.03
511	—SPC564A80L7CFAR	LQFP-176	4MB	150	-	5x32-bit	120 (1)	30.80	30.03	25.41	22.33
511	—SPC560P50L3CEFBAR	LQFP-100	512KB	64	2x10-bit	6x16-bit	-	16.10	14.70	12.60	11.55
511	—SPC560P50L3BEABR	LQFP-100	512KB	64	2x10-bit	6x16-bit	-	13.80	12.60	10.80	9.90
511	—SPC564A80B4CFAR	PBGA-324	4MB	150	2x10-bit	5x32-bit	120 (1)	33.40	32.56	27.55	24.21
511	—SPC560P40L3CEFBAR	LQFP-100	256KB	64	1x10-bit	6x16-bit	16 (1)	11.50	10.50	9.00	8.25
511	—SPC560P40L3CEFBAR	LQFP-100	256KB	64	1x10-bit	6x16-bit	64 (1)	11.50	10.50	9.00	8.25
511	—SPC560P40L1BEFBAR	LQFP-64	256KB	64	1x10-bit	6x16-bit	64 (1)	12.32	11.16	9.30	8.37
511	—SPC560P50L5CEFBAR	LQFP-144	512KB	64	2x10-bit	6x16-bit	-	17.48	15.96	13.68	12.54
511	—SPC560P50L5CEFBAR	LQFP-144	512KB	64	2x10-bit	6x16-bit	-	17.02	15.54	13.32	12.21