

ATMEL Microcontrollers



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Atmel MCU / MPU / DSP

XMEGA 8/16-BIT AVR MICROCONTROLLERS

AVR XMEGA microcontrollers have the same acclaimed characteristics as the established AVR devices, and operate from just 1.6 volts with up to 32MIPS at 32MHz. The XMEGA devices are general purpose microcontrollers well suited for a variety of applications including audio systems, ZigBee®, power tools, medical, board controllers, networking, metering, optical transceivers, motor control, white goods and any battery powered product.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Package	Flash	EEPROM	SRAM	Max. I/O Pins	Power Supply	Speed	Temperature	Price Each						
										1	10	25	100			
A Series																
556-ATXMEGA16A4-AU	ATXMEGA16A4-AU	TQFP-44	16KB	1KB	2KB	34	1.6V-3.6V	32MHz	-40°C to 85°C	6.09	5.44	4.89	4.46			
556-ATXMEGA16A4-MH	ATXMEGA16A4-MH	QFN-64	16KB	1KB	2KB	34	1.6V-3.6V	32MHz	-40°C to 85°C	6.09	5.44	4.89	4.46			
556-ATXMEGA32A4-AU	ATXMEGA32A4-AU	TQFP-44	32KB	1KB	4KB	34	1.6V-3.6V	32MHz	-40°C to 85°C	6.15	5.53	5.04	4.55			
556-ATXMEGA32A4-CU	ATXMEGA32A4-CU	PBGA-49	32KB	1KB	4KB	34	1.6V-3.6V	32MHz	-40°C to 85°C	6.55	5.90	5.37	4.85			
556-ATXMEGA32A4-MH	ATXMEGA32A4-MH	QFN-64	32KB	1KB	4KB	34	1.6V-3.6V	32MHz	-40°C to 85°C	6.15	5.53	5.04	4.55			
556-ATXMEGA32A4U-AU	ATXMEGA32A4U-AU	TQFP-44	36KB	1KB	4KB	34	1.6V-3.6V	32MHz	-40°C to 85°C	4.02	3.59	3.23	2.94			
556-ATXMEGA32A4U-CU	ATXMEGA32A4U-CU	VFBGA-44	36KB	1KB	4KB	34	1.6V-3.6V	32MHz	-40°C to 85°C	4.34	3.87	3.49	3.18			
556-ATXMEGA32A4U-MH	ATXMEGA32A4U-MH	VQFN-44	36KB	1KB	4KB	34	1.6V-3.6V	32MHz	-40°C to 85°C	4.02	3.59	3.23	2.94			
556-ATXMEGA64A1-AU	ATXMEGA64A1-AU	TQFP	64KB+4KB	2KB	8KB	78	1.6V-3.6V	32MHz	-40°C to 85°C	8.43	7.59	6.91	6.24			
556-ATXMEGA64A3-AU	ATXMEGA64A3-AU	TQFP-64	64KB	2KB	4KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	8.59	7.73	7.04	6.35			
556-ATXMEGA64A3-MH	ATXMEGA64A3-MH	QFN-64	64KB	2KB	4KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	8.59	7.73	7.04	6.35			
556-ATXMEGA256A3U-AU	ATXMEGA256A3U-AU	TQFP-64	64KB	2KB	16KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	7.26	6.53	5.95	5.37			
556-ATXMEGA128A1-AU	ATXMEGA128A1-AU	TQFP	128KB+8KB	2KB	8KB	78	1.6V-3.6V	32MHz	-40°C to 85°C	10.67	9.60	8.75	7.89			
556-ATXMEGA128A1-CU	ATXMEGA128A1-CU	CBGA	128KB+8KB	2KB	8KB	78	1.6V-3.6V	32MHz	-40°C to 85°C	10.38	9.43	8.73	7.98			
556-ATXMEGA128A3-AU	ATXMEGA128A3-AU	TQFP-64	128KB	2KB	8KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	10.91	9.82	8.95	8.07			
556-ATXMEGA128A3-MH	ATXMEGA128A3-MH	QFN-64	128KB	2KB	8KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	10.91	9.82	8.95	8.07			
556-ATXMEGA192A3-AU	ATXMEGA192A3-AU	TQFP-64	192KB	4KB	16KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	10.60	9.64	8.91	8.15			
556-ATXMEGA192A3-MH	ATXMEGA192A3-MH	QFN-64	192KB	4KB	16KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	10.60	9.64	8.91	8.15			
556-ATXMEGA256A3-AU	ATXMEGA256A3-AU	TQFP-64	256KB	4KB	16KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	12.47	11.34	10.49	9.59			
556-ATXMEGA256A3B-MH	ATXMEGA256A3B-MH	QFN-64	256KB	4KB	16KB	49	1.6V-3.6V	32MHz	-40°C to 85°C	13.34	12.13	11.22	10.26			
556-ATXMEGA256A3BU-AU	ATXMEGA256A3BU-AU	TQFP-64	256KB	4KB	16KB	49	1.6V-3.6V	32MHz	-40°C to 85°C	7.62	6.86	6.25	5.64			
556-ATXMEGA256A3BUMH	ATXMEGA256A3BU-MH	TQFP-64	256KB	4KB	16KB	49	1.6V-3.6V	32MHz	-40°C to 85°C	7.62	6.86	6.25	5.64			
556-ATXMEGA256A3U-MH	ATXMEGA256A3U-MH	QFN-64	264KB	4KB	16KB	50	1.6V-3.6V	32MHz	-40°C to 85°C	7.26	6.53	5.95	5.37			
E Series																
556-ATXMEGA8E5-AU	ATXMEGA8E5-AU	TQFP-32	8KB	512 bytes	1KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	2.37	2.14	1.91	1.72			
556-ATXMEGA8E5-MU	ATXMEGA8E5-MU	VQFN-32	8KB	512 bytes	1KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	2.37	2.14	1.91	1.72			
556-ATXMEGA8E5-M4U	ATXMEGA8E5-M4U	UQFN-32	8KB	512 bytes	1KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	2.42	2.19	1.95	1.76			
556-ATXMEGA16E5-AU	ATXMEGA16E5-AU	TQFP-32	16KB	512 bytes	2KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	2.76	2.49	2.22	2.00			
556-ATXMEGA16E5-MU	ATXMEGA16E5-MU	VQFN-32	16KB	512 bytes	2KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	2.76	2.49	2.22	2.00			
556-ATXMEGA16E5-M4U	ATXMEGA16E5-M4U	UQFN-32	16KB	512 bytes	2KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	2.54	2.27	2.04	1.86			
556-ATXMEGA32E5-AU	ATXMEGA32E5-AU	TQFP-32	32KB	1KB	4KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	2.99	2.67	2.41	2.19			
556-ATXMEGA32E5-MU	ATXMEGA32E5-MU	VQFN-32	32KB	1KB	4KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	2.99	2.67	2.41	2.19			
556-ATXMEGA32E5-M4U	ATXMEGA32E5-M4U	UQFN-32	32KB	1KB	4KB	26	1.6V-3.6V	32MHz	-40 C to 85 C	3.04	2.72	2.45	2.23			

ATUCXXL3U MICROCONTROLLERS

The high-performance 32-bit AVR microcontroller is designed for cost-sensitive embedded applications that require low power consumption, high code density, and high performance. The device includes USB Full-speed device interface.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Package	Flash (KB)	SRAM (KB)	# of Touch Channels	IO Pins Max.	USB Transceiver	Operating Freq. Max (MHz)	Power Supply	Price Each			
										1	10	25	100
556-ATUC64L3U-AUT	ATUC64L3U-AUT	TQFPMPF-64	64	16	25	51	1	50	1.62-3.6V	9.00	8.10	7.38	6.66
556-ATUC256L3U-AUT	ATUC256L3U-AUT	TQFPMPF-64	256	32	25	51	1	50	1.62-3.6V	10.66	9.70	8.97	8.20
556-ATUC128D4-AUT	ATUC128D4-AUT	TQFP-48	128	16	25	35	1	48	1.8-3.3V	7.91	7.12	6.48	5.85
556-ATUC64D4-AUT	ATUC64D4-AUT	TQFP-48	64	16	25	35	1	48	1.8-3.3V	6.34	5.71	5.20	4.69

AT32UC3A0/A1 MICROCONTROLLERS

Designed for high data throughput, low power consumption and outstanding computing performance, the A0 and A1 Series features high connectivity with USB device and host, Ethernet MAC and SDRAM interfaces. These communication features, together with fast flash and large internal SRAM, make it ideally suited for data-intensive applications.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Package	Flash	USB	SRAM	Max. I/O Pins	Power Supply	Price Each			
								1	10	25	100
556-AT32UC3A0128ALUT	AT32UC3A0128-ALUT	LQFP-144	128KB	Full speed + On the Go	32KB	109	1.8V-3.3V	11.34	10.31	9.54	8.72
556-AT32UC3A1128-AUT	AT32UC3A1128-AUT	TQFP-100	128KB	Full speed + On the Go	32KB	69	1.8V-3.3V	10.17	9.24	8.55	7.82
556-AT32UC3A0256ALUT	AT32UC3A0256-ALUT	LQFP-144	256KB	Full speed + On the Go	64KB	109	1.8V-3.3V	13.93	12.66	11.71	10.71
556-AT32UC3A1256-AUT	AT32UC3A1256-AUT	TQFP-100	256KB	Full speed + On the Go	64KB	69	1.8V-3.3V	12.49	11.35	10.50	9.60
556-AT32UC3B0256A2UT	AT32UC3B0256-A2UT	TQFP-64	256KB	Full speed + On the Go	32KB	44	1.8V-3.3V	10.55	9.49	8.65	7.80
556-AT32UC3A00512ALUT	AT32UC3A00512-ALUT	LQFP-144	512KB	Full speed + On the Go	64KB	109	1.8V-3.3V	14.95	13.59	12.57	11.49
556-AT32UC3A1512-AUT	AT32UC3A1512-AUT	TQFP-100	512KB	Full speed + On the Go	64KB	69	1.8V-3.3V	14.74	13.40	12.40	11.33

AT32UC3A3/A4 MICROCONTROLLERS

The AVR UC3 A3/A4 Series is designed for exceptionally high data throughput with Hi-Speed USB device and host, SD/SDIO card, Multi-Level-Cell (MLC) NAND flash with ECC and SDRAM interfaces. With its multi-layered AVR databus, 128KB on-chip SRAM split into 3 banks for higher throughput, and multi-channel peripheral and memory-to-memory DMA controller, the A3/A4 offers outstanding data transfer rates.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Package	Flash	USB	SRAM	AES Crypto Module	Max. I/O Pins	Power Supply	Price Each			
									1	10	25	100
556-AT32UC3A364-ALUT	AT32UC3A364-ALUT	LQFP-144	64KB	Hi-Speed + On the Go	128KB	No	110	2.7V-3.6V	11.65	10.59	9.80	8.95
556-AT32UC3A3128CTUT	AT32UC3A3128-CTUT	TBGA-144	128KB	Hi-Speed + On the Go	128KB	No	110	2.7V-3.6V	13.30	12.09	11.18	10.22
556-AT32UC3A3256ALUT	AT32UC3A3256-ALUT	LQFP-144	256KB	Hi-Speed + On the Go	128KB	No	110	2.7V-3.6V	16.33	14.85	13.74	12.55
556-AT32UC3A3256CTUT	AT32UC3A3256-CTUT	TBGA-144	256KB	Hi-Speed + On the Go	128KB	No	110	2.7V-3.6V	16.53	15.03	13.90	12.71
556-AT32UC3A3256SALUT	AT32UC3A3256S-ALUT	LQFP-144	256KB	Hi-Speed + On the Go	128KB	Yes	110	2.7V-3.6V	17.29	15.72	14.54	13.29
556-AT32UC3A3256SCTT	AT32UC3A3256S-CTUT	TBGA-144	256KB	Hi-Speed + On the Go	128KB	Yes	110	2.7V-3.6V	17.49	15.90	14.71	13.44

AT32UC3L MICROCONTROLLERS

The AVR UC3 L-Series is Atmel's first picoPower 32-bit microcontroller that runs on 165µA/MHz in active mode, 600nA with RTC running, and down to 9nA with all clocks stopped. The UC3 L-Series includes a built-in Capacitive Touch Peripheral and FlashVault allowing secure on-chip storage of software IP.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Package	Flash	MIPS	SRAM	Max. I/O Pins	Speed	Power Supply	Price Each			
									1	10	25	100
556-AT32UC3L016-AUT	AT32UC3L016-AUT	TQFP-48	16KB	64	8192 Bytes	36	50MHz	1.8V-3.3V	5.83	5.20	4.68	4.27
556-AT32UC3L032-AUT	AT32UC3L032-AUT	TQFP-48	32KB	64	16384 Bytes	36	50MHz	1.8V-3.3V	6.92	6.22	5.67	5.12
556-AT32UC3L064-AUT	AT32UC3L064-AUT	TQFP-48	64KB	64	16384 Bytes	36	50MHz	1.8V-3.3V	8.16	7.34	6.69	6.04

