

ATMEL Microcontrollers



MCU / MPU / DSP

Atmel

AVR 8-BIT MICROCONTROLLERS (CONT.)

RoHS Compliant This product is RoHS compliant.

megaAVR - 4KB-256KB Flash Programmable Memory (cont.)

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	Price Each			
									1	10	25	100
General Purpose (Cont.)												
556-ATMEGA32-16PU	ATMEGA32-16PU	PDIP	32KB	1KB	2048 Bytes	32	4.5V-5.5V	16MHz	5.82	5.64	5.19	4.81
556-ATMEGA32A-AU	ATMEGA32A-AU	TQFP	32KB	1KB	2KB	32	2.7V-5.5V	16MHz	3.69	3.57	3.29	3.01
556-ATMEGA32A-MU	ATMEGA32A-MU	QFN/MLF	32KB	1KB	2KB	32	2.7V-5.5V	16MHz	3.69	3.57	3.29	3.15
556-ATMEGA32A-PU	ATMEGA32A-PU	PDIP	32KB	1KB	2KB	32	2.7V-5.5V	16MHz	4.48	4.22	3.36	3.06
556-ATMEGA32L-8AU	ATMEGA32L-8AU	TQFP-44	32KB	1024 Bytes	2048 Bytes	32	2.7V-5.5V	16MHz	5.74	5.56	5.13	4.64
556-ATMEGA32L-8MU	ATMEGA32L-8MU	MLF	32KB	1KB	2048 Bytes	32	2.7V-5.5V	8MHz	5.74	5.56	5.13	4.75
556-ATMEGA32L-8PU	ATMEGA32L-8PU	PDIP	32KB	1KB	2048 Bytes	32	2.7V-5.5V	8MHz	5.19	5.13	4.97	4.75
556-ATMEGA325-16AU	ATMEGA325-16AU	TQFP	32KB	1KB	2048 Bytes	54	2.7V-5.5V	16MHz	4.83	4.68	4.32	4.00
556-ATMEGA328-PU	ATMEGA328-PU	PDIP-28	32KB	1024 Bytes	2048 Bytes	23	1.8V-5.5V	20MHz	2.06	1.99	1.80	1.70
556-ATMEGA64-16AU	ATMEGA64-16AU	TQFP	64KB	2KB	4096 Bytes	54	4.5V-5.5V	16MHz	8.31	8.06	7.42	6.88
556-ATMEGA64A-AU	ATMEGA64A-AU	TQFP-64	64KB	2048 Bytes	4096 Bytes	53	2.7V-5.5V	16MHz	5.15	4.88	4.60	4.49
556-ATMEGA64L-8AU	ATMEGA64L-8AU	TQFP	64KB	2KB	4096 Bytes	54	2.7V-5.5V	8MHz	8.46	8.20	7.42	6.88
556-ATMEGA64L-8MU	ATMEGA64L-8MU	MLF	64KB	2KB	4KB	53	2.7V-5.5V	8MHz	8.31	8.06	7.42	7.26
556-ATMEGA640-16AU	ATMEGA640-16AU	TQFP	64KB	4KB	8192 Bytes	86	2.7V-5.5V	16MHz	8.30	8.05	7.41	7.25
556-ATMEGA644-20AU	ATMEGA644-20AU	TQFP	64KB	2KB	4096 Bytes	32	2.7V-5.5V	20MHz	5.53	5.36	4.93	4.57
556-ATMEGA644-20MU	ATMEGA644-20MU	MLF	64KB	2KB	4096 Bytes	32	2.7V-5.5V	20MHz	5.53	5.36	4.94	4.58
556-ATMEGA644-20PU	ATMEGA644-20PU	PDIP	64KB	2KB	4096 Bytes	32	2.7V-5.5V	20MHz	5.61	5.44	4.94	4.58
556-ATMEGA644A-PU	ATMEGA644A-PU	PDIP-40	64KB	2048 Bytes	4096 Bytes	32	1.8V-5.5V	20MHz	4.62	4.48	4.05	3.85
556-ATMEGA644V10AU	ATMEGA644V-10AU	TQFP	64KB	2KB	4096 Bytes	32	1.8V-5.5V	10MHz	5.53	5.36	4.87	4.51
556-ATMEGA644V10PU	ATMEGA644V-10PU	PDIP	64KB	2KB	4096 Bytes	32	1.8V-5.5V	10MHz	5.71	5.53	4.94	4.58
556-ATMEGA645-16AU	ATMEGA645-16AU	TQFP	64KB	2KB	4096 Bytes	54	2.7V-5.5V	16MHz	6.45	6.25	5.65	5.24
556-ATMEGA128-16AU	ATMEGA128-16AU	TQFP	128KB	4KB	4096 Bytes	53	4.5V-5.5V	16MHz	12.10	10.80	10.24	9.99
556-ATMEGA128-16MU	ATMEGA128-16MU	MLF	128KB	4KB	4096 Bytes	53	4.5V-5.5V	16MHz	12.32	10.58	9.79	9.77
556-ATMEGA128A-AU	ATMEGA128A-AU	TQFP-64	128KB	4096 Bytes	4096 Bytes	53	2.7V-5.5V	16MHz	6.49	6.13	5.65	5.27
556-ATMEGA128L-8AU	ATMEGA128L-8AU	TQFP	128KB	4KB	4096 Bytes	53	2.7V-5.5V	8MHz	12.32	11.44	10.80	9.77
556-ATMEGA128L-8MU	ATMEGA128L-8MU	MLF	128KB	4KB	4096 Bytes	53	2.7V-5.5V	8MHz	12.10	11.47	10.80	10.44
556-ATMEGA1280-16AU	ATMEGA1280-16AU	TQFP	128KB	4KB	8192 Bytes	86	2.7V-5.5V	16MHz	14.01	10.09	9.85	9.41
556-ATMEGA1280V8AU	ATMEGA1280V-8AU	TQFP-100	128KB	4096 Bytes	8192 Bytes	86	1.8V-5.5V	16MHz	10.74	10.32	9.89	9.54
556-ATMEGA1281-16AU	ATMEGA1281-16AU	TQFP	128KB	4KB	8192 Bytes	54	2.7V-5.5V	16MHz	9.38	9.09	8.23	8.05
556-ATMEGA1281-16MU	ATMEGA1281-16MU	MLF	128KB	4KB	8KB	54	2.7V-5.5V	16MHz	13.12	12.74	8.74	8.05
556-ATMEGA1281V8AU	ATMEGA1281V-8AU	TQFP	128KB	4KB	8192 Bytes	54	1.8V-5.5V	8MHz	9.22	8.94	8.23	8.05
556-ATMEGA1281V8MU	ATMEGA1281V-8MU	MLF	128KB	4KB	8192 Bytes	54	1.8V-5.5V	8MHz	9.22	8.94	8.23	8.05
556-ATMEGA1284P-MU	ATMEGA1284P-MU	MLF-44	128KB	4096 Bytes	16384 Bytes	32	1.8V-5.5V	20MHz	5.64	5.47	5.00	4.61
556-ATMEGA1284P-PU	ATMEGA1284P-PU	PDIP-40	128KB	4096 Bytes	16384 Bytes	32	1.8V-5.5V	20MHz	5.82	5.64	5.10	4.66
556-ATMEGA2560-16AU	ATMEGA2560-16AU	TQFP	256KB	4KB	8192 Bytes	86	4.5V-5.5V	16MHz	12.86	12.47	11.28	11.00
556-ATMEGA2560V8AU	ATMEGA2560V-8AU	TQFP	256KB	4KB	8192 Bytes	86	1.8V-5.5V	8MHz	12.86	12.47	11.28	11.04
556-ATMEGA2561-16AU	ATMEGA2561-16AU	TQFP	256KB	4KB	8192 Bytes	54	4.5V-5.5V	16MHz	12.50	12.40	11.16	11.02
556-ATMEGA2561V8AU	ATMEGA2561V-8AU	TQFP	256KB	4KB	8192 Bytes	54	1.8V-5.5V	8MHz	12.50	11.85	11.16	10.91
LCD Controllers												
556-ATMEGA169P-16AU	ATMEGA169P-16AU	TQFP-64	16KB	512 Bytes	1024 Bytes	54	2.7V-5.5V	16MHz	5.89	4.63	3.65	3.47
556-ATMEGA169PV8AU	ATMEGA169PV-8AU	TQFP-64	16KB	512 Bytes	1024 Bytes	54	1.8V-5.5V	8MHz	7.10	5.77	4.45	4.13
556-ATMEGA329-16AU	ATMEGA329-16AU	TQFP	32KB	1KB	2KB	54	2.7V-5.5V	16MHz	5.35	5.18	4.77	4.34
556-ATMEGA329P-20AU	ATMEGA329P-20AU	TQFP-64	32KB	1024 Bytes	2048 Bytes	54	2.7V-5.5V	20MHz	5.45	5.28	4.77	4.67
556-ATMEGA329PV10AU	ATMEGA329PV-10AU	TQFP-64	32KB	1024 Bytes	2048 Bytes	54	1.8V-5.5V	10MHz	7.51	6.50	4.97	4.57
556-ATMEGA3290P-20AU	ATMEGA3290P-20AU	TQFP-100	32KB	1024 Bytes	2048 Bytes	69	2.7V-5.5V	20MHz	8.60	7.40	5.76	5.73
Lighting												
556-A90PWM3B16SU	AT90PWM3B-16SU	SOIC-32	8KB	512 Bytes	512 Bytes	27	2.7V-5.5V	16MHz	2.64	2.56	2.32	2.12
556-AT90PWM316-16SU	AT90PWM316-16SU	SOIC-32	16KB	512 Bytes	1024 Bytes	27	2.7V-5.5V	16MHz	3.71	3.20	2.32	2.20
picoPower®												
556-ATMEGA48P-20AU	ATMEGA48P-20AU	TQFP-32	4KB	256 Bytes	512 Bytes	23	1.8V-5.5V	20MHz	2.18	2.03	1.91	1.82
556-ATMEGA48P-20PU	ATMEGA48P-20PU	PDIP-28	4KB	256 Bytes	512 Bytes	23	1.8V-5.5V	20MHz	2.26	2.10	1.92	1.80
556-ATMEGA48PV-10PU	ATMEGA48PV-10PU	PDIP-28	4KB	256 Bytes	512 Bytes	23	1.8V-5.5V	10MHz	2.56	2.10	1.92	1.89
556-ATMEGA88P-20AU	ATMEGA88P-20AU	TQFP-32	8KB	512 Bytes	1024 Bytes	23	1.8V-5.5V	20MHz	2.85	2.76	2.59	2.27
556-ATMEGA88P-20PU	ATMEGA88P-20PU	PDIP-28	8KB	512 Bytes	1024 Bytes	23	1.8V-5.5V	20MHz	2.93	2.84	2.72	2.54
556-ATMEGA88PA-AU	ATMEGA88PA-AU	TQFP-32	8KB	512 Bytes	1024 Bytes	23	1.8V-5.5V	20MHz	1.67	1.54	1.42	1.37
556-ATMEGA88PA-PU	ATMEGA88PA-PU	PDIP-28	8KB	512 Bytes	1024 Bytes	23	1.8V-5.5V	20MHz	1.75	1.61	1.49	1.43
556-ATMEGA164P-20AU	ATMEGA164P-20AU	TQFP-44	16KB	512 Bytes	1024 Bytes	32	2.7V-5.5V	20MHz	3.86	3.64	3.36	3.30
556-ATMEGA164P-20MU	ATMEGA164P-20MU	MLF-44	16KB	512 Bytes	1024 Bytes	32	2.7V-5.5V	20MHz	4.47	3.64	3.36	3.30
556-ATMEGA164P-20PU	ATMEGA164P-20PU	PDIP-40	16KB	512 Bytes	1024 Bytes	32	2.7V-5.5V	20MHz	3.93	3.81	3.51	3.20
556-ATMEGA164PV10AU	ATMEGA164PV-10AU	TQFP-44	16KB	512 Bytes	1024 Bytes	32	1.8V-5.5V	10MHz	3.93	3.64	3.36	3.30
556-ATMEGA164PV10MU	ATMEGA164PV-10MU	MLF-44	16KB	512 Bytes	1024 Bytes	32	1.8V-5.5V	10MHz	3.86	3.65	3.37	3.31
556-ATMEGA164PV10PU	ATMEGA164PV-10PU	PDIP-40	16KB	512 Bytes	1024 Bytes	32	1.8V-5.5V	10MHz	4.59	3.72	3.43	3.37
556-ATMEGA165P-16AU	ATMEGA165P-16AU	TQFP-64	16KB	512 Bytes	1024 Bytes	54	2.7V-5.5V	16MHz	4.52	4.38	4.02	3.67
556-ATMEGA165PV8MU	ATMEGA165PV-8MU	MLF-64	16KB	512 Bytes	1024 Bytes	54	1.8V-5.5V	8MHz	6.16	5.30	4.26	3.91
556-ATMEGA168P-20PU	ATMEGA168P-20PU	PDIP-28	16KB	512 Bytes	1024 Bytes	23	1.8V-5.5V	20MHz	3.47	3.36	3.04	2.77
556-ATMEGA168PA-AU	ATMEGA168PA-AU	TQFP-32	16KB	512 Bytes	1024 Bytes	23	1.8V-5.5V	20MHz	1.90	1.84	1.77	1.65
556-ATMEGA168PA-MU	ATMEGA168PA-MU	MLF-32	16KB	512 Bytes	1024 Bytes	23	1.8V-5.5V	20MHz	1.90	1.84	1.77	1.65
556-ATMEGA324P-20AU	ATMEGA324P-20AU	TQFP-44	32KB	1024 Bytes	2048 Bytes	32	2.7V-5.5V	20MHz	5.05	4.69	4.32	4.00
556-ATMEGA324P-20MU	ATMEGA324P-20MU	MLF-44	32KB	1024 Bytes	2048 Bytes	32	2.7V-5.5V	20MHz	5.05	4.89	4.42	4.32
556-ATMEGA324P-20PU	ATMEGA324P-20PU	PDIP-40	32KB	1024 Bytes	2048 Bytes	32	2.7V-5.5V	20MHz	5.03	4.76	4.39	4.09
556-ATMEGA324PV10AU	ATMEGA324PV-10AU	TQFP-44	32KB	1024 Bytes	2048 Bytes	32	1.8V-5.5V	10MHz	5.05	4.69	4.32	4.01
556-ATMEGA324PV10MU	ATMEGA324PV-10MU	MLF-44	32KB	1024 Bytes	2048 Bytes	32	1.8V-5.5V	10MHz	4.95	4.69	4.32	4.01
556-ATMEGA324PV10PU	ATMEGA324PV-10PU	PDIP-40	32KB	1024 Bytes	2048 Bytes	32	1.8V-5.5V	10MHz	4.33	4.20	4.16	4.09
556-ATMEGA325P-20AU	ATMEGA325P-20AU	TQFP-64	32KB	1024 Bytes	2048 Bytes	54	2.7V-5.5V	20MHz	6.99	6.06	4.66	4.29
556-ATMEGA3250P-20AU	ATMEGA3250P-20AU	TQFP-100	32KB	1024 Bytes	2048 Bytes	69	2.7V-5.5V	20MHz	5.18	5.02	4.54	4.45
556-ATMEGA328P-AU	ATMEGA328P-AU	TQFP-32	32KB	1024 Bytes	2048 Bytes	23	1.8V-5.5V	20MHz	2.41	2.01	1.88	1.73
556-ATMEGA328P-AUR	ATMEGA328P-AUR	TQFP-32	32KB	1024 Bytes	2048 Bytes	23	1.8V-5.5V	20MHz	3.16	2.94	2.72	2.42
556-ATMEGA328P-MU	ATMEGA328P-MU	MLF-32	32KB	1024 Bytes	2048 Bytes	23	1.8V-5.5V	20MHz	2.14	2.01	1.86	1.82
556-ATMEGA328P-PU	ATMEGA3											