

ATMEL Microcontrollers

RoHS Compliant This product is RoHS compliant.



MCU / MPU / DSP

Atmel

32-BIT FLASH BASED ARM MICROCONTROLLERS

USB Device/Host: FS = Full Speed; HS = High Speed



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Package	ARM Core	Clock Speed (MHz)	Flash (KB)	SRAM (KB)	USB Device (FS/HS)	USB Host (FS/HS)	Ethernet MAC 10/100	CAN	ADC	Max. I/O Pins	Timers	Price Each			
														1	10	25	100
556-A91M55800A-33AU	AT91M55800A-33AU	LQFP-176	ARMTMDI	33	---	8	---	---	---	---	8-10 bit	58	6	11.72	10.28	9.55	9.30
556-A91M40800-33AU	AT91M40800-33AU	LQFP-100	ARMTMDI	40	---	8	---	---	---	---	---	32	3	6.23	5.55	5.22	5.09
556-A91R40008-66AU	AT91R40008-66AU	LQFP-100	ARMTMDI	75	---	256	---	---	---	---	---	32	3	10.34	9.22	8.67	8.35
556-A91RM9200CJ-002	AT91RM9200-CJ-002	LFPGA-256	ARM920	180	---	16	FS	FS	1	---	---	122	6	22.00	21.34	19.30	17.58
556-A91RM9200CJ-002	AT91RM9200-CJ-002	PQFP-208	ARM920	180	---	16	FS	FS	1	---	---	122	6	20.69	20.06	18.14	16.49
SAM3 - Cortex M3 Core MCUs																	
556-ATSAM3N00AA-AU	ATSAM3N00AA-AU	LQFP-48	Cortex-M3	48	16	4	---	---	---	---	8-12 bit	34	6	2.77	2.38	2.12	1.85
556-ATSAM3N00AA-AU	ATSAM3N00AA-AU	LQFP-48	Cortex-M3	48	32	8	---	---	---	---	8-12 bit	34	6	2.85	2.45	2.19	1.91
556-ATSAM3N00BA-AU	ATSAM3N00BA-AU	LQFP-64	Cortex-M3	48	16	4	---	---	---	---	10-12 bit	47	6	2.92	2.51	2.24	1.95
556-ATSAM3N0BA-AU	ATSAM3N0BA-AU	LQFP-64	Cortex-M3	48	32	8	---	---	---	---	10-12 bit	47	6	3.01	2.59	2.31	2.01
556-ATSAM3N0CA-AU	ATSAM3N0CA-AU	LQFP-100	Cortex-M3	48	32	8	---	---	---	---	16-12 bit	79	6	3.19	2.74	2.45	2.13
556-ATSAM3S8BA-AU	ATSAM3S8BA-AU	QFP-64	Cortex-M3	64	512	64	HS	HS	---	---	11-12 bit	47	6	7.59	7.36	5.37	5.28
556-ATSAM3S8DBA-AU	ATSAM3S8DBA-AU	QFP-64	Cortex-M3	64	512	64	HS	HS	---	---	11-12 bit	47	6	8.34	8.09	5.91	5.81
556-ATSAM3S8CA-AU	ATSAM3S8CA-AU	QFP-100	Cortex-M3	64	512	64	HS	HS	---	---	16-12 bit	79	6	8.05	7.80	5.70	5.60
556-ATSAM3S8DCA-AU	ATSAM3S8DCA-AU	QFP-100	Cortex-M3	64	512	64	HS	HS	---	---	16-12 bit	79	6	8.84	8.57	6.26	6.15
556-ATSAM3A8CA-AU	ATSAM3A8CA-AU	LQFP-100	Cortex-M3	84	512	64	HS	HS	1	2	6-12 bit	63	9	10.46	9.00	8.03	7.00
556-ATSAM3A4CA-AU	ATSAM3A4CA-AU	LQFP-100	Cortex-M3	84	256	64	HS	HS	1	2	6-12 bit	63	9	8.83	7.59	6.77	5.91
556-ATSAM3X8CA-AU	ATSAM3X8CA-AU	LQFP-100	Cortex-M3	84	512	64	HS	HS	1	2	16-12 bit	63	9	11.02	10.77	10.59	10.40
556-ATSAM3X4CA-AU	ATSAM3X4CA-AU	LQFP-100	Cortex-M3	84	256	64	HS	HS	1	2	16-12 bit	63	9	9.29	9.08	8.93	8.76
556-ATSAM3X4EA-AU	ATSAM3X4EA-AU	LQFP-144	Cortex-M3	84	256	64	HS	HS	1	2	16-12 bit	103	9	11.24	10.99	10.80	10.60
556-ATSAM3X8EA-AU	ATSAM3X8EA-AU	LQFP-144	Cortex-M3	84	512	64	HS	HS	1	2	16-12 bit	103	9	9.45	9.16	8.28	8.04
556-ATSAM3U1CA-AU	ATSAM3U1CA-AU	LQFP-100	Cortex-M3	96	64	20	HS	---	---	---	4-10 bit, 4-12 bit	57	3	8.08	7.83	7.00	6.40
556-ATSAM3U2CA-AU	ATSAM3U2CA-AU	LQFP-100	Cortex-M3	96	128	36	HS	---	---	---	4-10 bit, 4-12 bit	57	3	4.39	4.26	3.73	3.48
556-ATSAM3U2CA-CU	ATSAM3U2CA-CU	TFBGA-100	Cortex-M3	96	128	36	HS	---	---	---	4-10 bit, 4-12 bit	57	3	4.74	4.60	4.03	3.76
556-ATSAM3U2EA-AU	ATSAM3U2EA-AU	LQFP-144	Cortex-M3	96	128	36	HS	---	---	---	8-10 bit, 8-12 bit	96	3	7.19	5.91	4.62	4.24
556-ATSAM3U4CA-AU	ATSAM3U4CA-AU	LQFP-100	Cortex-M3	96	256	52	HS	---	---	---	4-10 bit, 4-12 bit	57	3	11.09	10.75	8.73	8.50
556-ATSAM3U4CA-CU	ATSAM3U4CA-CU	TFBGA-100	Cortex-M3	96	256	52	HS	---	---	---	4-10 bit, 4-12 bit	57	3	7.26	6.36	5.72	5.70
556-ATSAM3U4EA-AU	ATSAM3U4EA-AU	LQFP-144	Cortex-M3	96	256	52	HS	---	---	---	8-10 bit, 8-12 bit	96	3	6.86	6.68	6.40	6.24
SAM4S - Cortex M4 Core MCUs																	
556-ATSAM4S16BA-AU	ATSAM4S16BA-AU	LQFP-64	Cortex-M4	120	1024	128	FS	-	-	-	11-12 bit	47	3	10.81	9.02	6.78	6.13
556-ATSAM4S16BA-MU	ATSAM4S16BA-MU	QFN-64	Cortex-M4	120	1024	128	FS	-	-	-	11-12 bit	47	3	11.02	9.20	6.92	6.25
556-ATSAM4S16CA-AU	ATSAM4S16CA-AU	LQFP-100	Cortex-M4	120	1024	128	FS	-	-	-	16-12 bit	79	6	11.50	9.60	7.22	6.52
556-ATSAM4S16CA-CFU	ATSAM4S16CA-CFU	VFPGA-100	Cortex-M4	120	1024	128	FS	-	-	-	16-12 bit	79	6	12.42	10.36	7.80	7.04
556-ATSAM4S16CA-CU	ATSAM4S16CA-CU	TFBGA-100	Cortex-M4	120	1024	128	FS	-	-	-	16-12 bit	79	6	12.42	10.36	7.80	7.04
556-ATSAM4S8BA-AU	ATSAM4S8BA-AU	LQFP-64	Cortex-M4	32	512	16	FS	-	-	-	11-12 bit	47	3	9.00	7.51	5.65	5.11
556-ATSAM4S8BA-MU	ATSAM4S8BA-MU	QFN-64	Cortex-M4	32	512	16	FS	-	-	-	11-12 bit	47	3	9.18	7.66	5.76	5.21
556-ATSAM4S8CA-AU	ATSAM4S8CA-AU	LQFP-100	Cortex-M4	32	512	16	FS	-	-	-	16-12 bit	79	6	9.54	7.96	5.99	5.41
556-ATSAM4S8CA-CFU	ATSAM4S8CA-CFU	VFPGA-100	Cortex-M4	32	512	16	FS	-	-	-	16-12 bit	79	6	10.31	8.60	6.47	5.85
556-ATSAM4S8CA-CU	ATSAM4S8CA-CU	TFBGA-100	Cortex-M4	32	512	16	FS	-	-	-	16-12 bit	79	6	10.31	8.60	6.47	5.85
SAM7 - 7TMDI Core MCUs																	
556-AT91SAM7L128-AU	AT91SAM7L128-AU	LQFP-128	7TMDI	36	128	6	FS	---	---	---	4-10 bit	80	3	8.98	8.71	7.88	7.15
556-AT91SAM7X128B-AU	AT91SAM7X128B-AU	LQFP-100	7TMDI	55	128	32	FS	---	1	1	8-10 bit	62	3	7.40	6.99	6.50	6.35
556-A91SAM7SE256CU	AT91SAM7SE256-CU	LFPGA-144	7TMDI	55	256	32	FS	---	---	---	8-10 bit	88	3	11.55	11.20	10.30	9.58
556-A91SAM7SE256AU	AT91SAM7SE256-AU	LQFP-128	7TMDI	55	256	32	FS	---	---	---	8-10 bit	88	3	12.93	9.32	9.21	8.60
556-AT91SAM7XC256BAU	AT91SAM7XC256B-AU	LQFP-100	7TMDI	55	256	64	FS	---	1	1	8-10 bit	62	3	10.57	10.25	9.27	8.49
556-AT91SAM7S256C-MU	AT91SAM7S256C-MU	TFBGA-100	7TMDI	55	256	64	FS	---	---	---	8-10 bit	32	3	9.17	8.04	7.29	7.27
556-A91SAM7SE512AU	AT91SAM7SE512-AU	LQFP-128	7TMDI	55	512	32	FS	---	---	---	8-10 bit	88	3	18.63	15.67	11.70	10.70
556-A91SAM7SE512CU	AT91SAM7SE512-CU	LFPGA-144	7TMDI	55	512	32	FS	---	---	---	8-10 bit	88	3	20.01	17.25	12.57	11.46
556-A91SAM7X512AU	AT91SAM7X512-AU	LQFP-100	7TMDI	55	512	128	FS	---	1	1	8-10 bit	62	3	14.31	13.88	12.55	11.42
556-A91SAM7XC512CU	AT91SAM7XC512-CU	TFBGA-100	7TMDI	55	512	128	FS	---	1	1	8-10 bit	62	3	15.92	14.21	12.94	12.86
SAM9 - ARM 926 Core MCUs																	
556-AT91SAM9N12-CU	AT91SAM9N12-CU	BGA-217	926EJ-S	133	128	32	FS	---	---	---	1-10 bit	105	2	12.41	12.04	11.52	10.75
556-AT91SAM9260B-CU	AT91SAM9260B-CU	LFPGA-217	926EJ-S	210	---	2x4	FS	2 FS	1	---	4-10 bit	96	6	12.13	10.63	9.14	8.33
556-AT91SAM9260B-QU	AT91SAM9260B-QU	PQFP-208	926EJ-S	210	---	2x4	FS	2 FS	1	---	4-10 bit	96	6	12.13	10.63	9.14	8.33
556-AT91SAM9263B-CU	AT91SAM9263B-CU	TFBGA-324	926EJ-S	240	---	96	FS	2 FS	1	1	---	160	3	19.73	17.29	14.86	13.55
556-AT91SAM9261B-CU	AT91SAM9261B-CU	LFPGA-217	926EJ-S	240	---	160	FS	2 FS	---	---	---	96	3	14.78	12.95	11.13	10.15
556-AT91SAM9G25-CFU	AT91SAM9G25-CFU	BGA-217	926EJ-S	400	---	32	HS	HS	2	2	1-10 bit	105	2	12.85	9.43	8.61	8.55
556-AT91SAM9X25-CU	AT91SAM9X25-CU	BGA-217	926EJ-S	400	---	32	HS	HS	2	2	1-10 bit	105	2	11.23	10.89	9.84	8.94
556-AT91SAM9X35-CU	AT91SAM9X35-CU	BGA-217	926EJ-S	400	---	32	HS	HS	1	2	1-10 bit	105	2	11.23	10.89	9.84	8.94

QTOUCH™ CAPACITIVE TOUCH SENSORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Package	Description	Price Each			
				1	10	25	100
556-QT60160-1SG	QT60160-1SG	MLF-32	This QMatrix™ QT chip senses 'glass-touch' on 16 keys, using passive electrodes patterned on any PCB.	3.48	2.84	2.18	2.10
556-QT60168-ASG	QT60168-ASG	TQFP-32	This QMatrix™ QT chip senses 'glass-touch' on 16 keys, using passive electrodes patterned on any PCB.	5.20	5.04	4.89	4.74
556-QT60248-ASG	QT60248-ASG	TQFP-32	This QMatrix™ QT chip senses 'glass-touch' on 24 keys, using passive electrodes patterned on any PCB.	6.55	6.35	6.16	5.97
556-QT60326-ASG	QT60326-ASG	TQFP-32	This QMatrix™ QT chip senses 'glass-touch' on 32 keys, using passive electrodes patterned on any PCB.	8.22	7.97	7.73	7.50
556-QT60486-ASG	QT60486-ASG	TQFP-32	This QMatrix™ QT chip senses 'glass-touch' on 48 keys, using passive electrodes patterned on any PCB.	9.78	9.48	9.20	8.92

BATTERY AUTHENTICATION CHIPS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Package	Application	SRAM	Sleep Current	ESD Protection	Power Supply	Interface	Price Each			
									1	10	25	100
556-AT88SA100S-TSU-T	AT88SA100S-TSU-T	SOT23-3	Secure Battery Authentication	256 Bytes	<100nA	4kV	2.5-5.5	High Speed Single Wire	.88	.76	.679	.615
556-AT88SA102S-TSU-T	AT88SA102S-TSU-T	SOT23-3	Secure Auth. & Key Exchange	---	<100nA	4kV	2.5-5.5	High Speed Single Wire	.72	.63	.563	.51
556-AT88SA10HS-T												