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## Microcontrollers (Continued)

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Part No.	Product No.	Pkg.	Description	1	25
765097	ATMEGA88V-10AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
846989	ATMEGA128L-8AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 128k flash, 53 I/O, 8MHz, I-temp	14.89	13.48
846954	ATMEGA128-16AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 128k flash, 53 I/O, 16MHz, I-temp	14.89	13.48
764676	ATMEGA162V-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 8MHz, I-temp	5.95	5.34
764692	ATMEGA162V-8PI	DIP-40	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 8MHz, I-temp	8.35	7.74
764633	ATMEGA162-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 16MHz, I-temp	5.95	5.34
764650	ATMEGA162-16PI	DIP-40	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 16MHz, I-temp	6.95	6.44
764730	ATMEGA168V-10AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
847105	ATMEGA168V-10MU	QFN-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
764713	ATMEGA168-20MU	QFN-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 20MHz, I-temp	★	Call
764799	ATMEGA2560V-8AU	TQFP-100	8-bit AVR <sup>®</sup> MCU, 256k flash, 86 I/O, 8MHz, I-temp	17.19	14.40
764772	ATMEGA2560-16AU	TQFP-100	8-bit AVR <sup>®</sup> MCU, 256k flash, 86 I/O, 16MHz, I-temp	17.19	14.40
764932	ATMEGA8515L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, I-temp	5.09	4.62
764959	ATMEGA8515L-8JC	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, C-temp	5.25	4.74
764975	ATMEGA8515L-8JI	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, I-temp	5.25	5.10
764916	ATMEGA8515-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 16MHz, I-temp	5.09	4.62
847455	ATMEGA8535L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 8MHz, I-temp	5.49	4.99
764991	ATMEGA8535-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, I-temp	6.89	6.39
765011	ATMEGA8535-16JC	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, C-temp	5.65	5.11
765038	ATMEGA8535-16PC	DIP-40	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, C-temp	7.05	6.51
765193	ATTINY11L-2SC	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 2MHz, C-temp	.77	.72
765214	ATTINY11L-2SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 2MHz, I-temp	.77	.72
765265	ATTINY12V-1SC	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 1.2MHz, C-temp	1.69	1.54
765281	ATTINY12V-1SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 1.2MHz, I-temp	1.69	1.54
847535	ATTINY12L-4SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 4MHz, I-temp	2.15	1.96
248170	ATTINY12-8PC	DIP-8	8-bit MCU, 1KB flash, 8MHz, 6 I/O	1.85	1.56
765345	ATTINY13V-10PI	DIP-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 10MHz, I-temp	1.75	1.59
765353	ATTINY13V-10PU	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 10MHz, I-temp	1.44	1.28
765311	ATTINY13-20SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.59	1.53
765329	ATTINY13-20SII	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.39	1.26
765337	ATTINY13-20SUI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.44	1.18
765361	ATTINY15L-1PI	DIP-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 1.6MHz, I-temp	2.75	2.55
847623	ATTINY26L-8SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 8MHz, I-temp	2.95	2.70
847658	ATTINY26L-8SU	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 8MHz, I-temp	2.35	2.13
765417	ATTINY26-16SC	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 16MHz, C-temp	2.95	2.70
689039	ATTINY2313V-10PU	DIP-20	8-bit MCU, 2k flash, 10MHz, 18 I/O, I-temp	2.19	1.75
765396	ATTINY2313V-10SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 10MHz, I-temp	2.65	2.45
765409	ATTINY2313V-10SUI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 10MHz, I-temp	2.25	1.78
765370	ATTINY2313-20MU	QFN-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	★	Call
1537061	ATTINY2313-20PU	DIP-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.25	2.03
847578	ATTINY2313-20SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.09	1.91
847594	ATTINY2313-20SUI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.65	2.45
765388	ATTINY2313-20SUI383	SOIC-8	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.25	1.78
248217	ATTINY26-16PC	DIP-20	8-bit MCU, 2k flash, 16MHz, 16 I/O	2.05	1.23
323141	ATMEGA8515-16PC	DIP-40	8-bit MCU, 8k flash, 16MHz, 35 I/O	4.59	3.40
763534	AT80C32X2-RLTUL	VQFP-44	8-bit MCU, 8k-bytes ROM/OTP romless, I-temp	★	Call
763551	AT88SC0808C-PU	DIP-8	8-bit MCU, 8k-bit crypto memory, I-temp	★	Call
168874	AT89C2051-24PC	DIP-20	8-bit MCU, 2k flash, 24MHz, 15 I/O	2.29	1.70
763614	AT89C2051-12SU	SOIC-20	8-bit MCU, 2k flash, 15 I/O, 12MHz, I-temp	1.69	1.59
204089	AT89C4051-24PC	DIP-20	8-bit MCU, 4k flash, 24MHz, 15 I/O	2.15	1.78
845791	AT89C2051-24PI	DIP-20	8-bit MCU, 2k flash, 15 I/O, 24MHz, I-temp	1.95	1.67
168911	AT89C51-24JC	PLCC-44	8-bit MCU, 4k flash, 24MHz, 32 I/O	4.55	4.07
168903	AT89C51-24PC	DIP-40	8-bit MCU, 4k flash, 24MHz, 32 I/O	4.95	4.35
168920	AT89C52-24PC	DIP-40	8-bit MCU, 8k flash, 24MHz, 32 I/O	3.45	2.85
763631	AT89C5131A-RDTIM	VQFP-64	8-bit flash MCU w/ full speed USB device, I-temp	★	Call
763681	AT89C51RD2-RLTIM	VQFP-44	8-bit flash MCU, four 8-bit I/O ports, I-temp	★	Call
763711	AT89C51SNDIC-ROTLI	TQFP-80	Single chip flash MCU, 64k flash, I-temp	★	Call
763737	AT89C55WD-24JI	PLCC-44	8-bit MCU, 20k flash, 32 I/O, 24MHz, I-temp	★	Call
845919	AT89C55WD-24JU	PLCC-44	8-bit MCU, 20k flash, 32 I/O, 24MHz, I-temp	5.59	5.02
763753	AT89C55WD-24PI	DIP-40	8-bit MCU, 20k flash, 32 I/O, 24MHz, I-temp	★	Call
763770	AT89LS52-16JC	PLCC-44	8-bit MCU, 8k flash, 32 I/O, 16MHz, I-temp	2.29	2.22

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355830	AT89S51-24PC	DIP-40	8-bit MCU, 4k flash, 33MHz, 32 I/O	\$2.10	\$1.58
763817	AT89S51-24PI	DIP-40	8-bit MCU, 4k flash, 32 I/O, 24MHz, I-temp	2.29	2.16
220871	AT89S52-24JI	PLCC-44	8-bit MCU, 8k flash, 33MHz, 32 I/O, I-temp	1.85	1.49
845943	AT89S52-24JC	PLCC-44	8-bit MCU, 8k flash, 32 I/O, 24MHz, I-temp	2.99	2.53
845978	AT89S52-24JU	PLCC-44	8-bit MCU, 8k flash, 32 I/O, 24MHz, I-temp	3.05	2.75
763825	AT89S52-24PI	DIP-40	8-bit MCU, 8k flash, 32 I/O, 24MHz, I-temp	2.29	2.16
763841	AT89S52-24PU	DIP-40	8-bit MCU, 8k flash, 32 I/O, 24MHz, I-temp	2.29	2.16
662637	AT89S52-24PC	DIP-40	8-bit MCU, 8k flash, 32 I/O, 24MHz, I-temp	2.15	1.62
168946	AT89C55WD-24PC	DIP-40	8-bit MCU, 20k flash, 24MHz, 32 I/O	6.59	4.94
204097	AT89S8252-24PC	DIP-40	8-bit MCU, 8k flash, 24MHz, 32 I/O	5.95	5.35
846006	AT89S8253-24AI	TQFP-44	8-bit MCU, 12k flash, 32 I/O, 24MHz, I-temp	★	Call
763868	AT89S8253-24AU	TQFP-44	8-bit MCU, 12k flash, 32 I/O, 24MHz, I-temp	★	Call
846031	AT89S8253-24JI	PLCC-44	8-bit MCU, 12k flash, 32 I/O, 24MHz, I-temp	5.55	5.29
846057	AT89S8253-24JU	PLCC-44	8-bit MCU, 12k flash, 32 I/O, 24MHz, I-temp	4.89	4.43

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Part No.	Product No.	Pkg.	Description	1	10	100
699077	MSP430F169IPM	QFP-64	60kx8 + 256k flash, 2k RAM, 48 I/O	★	Call	Call
699000	MSP430F1232IPW	TSSOP-28	8kx8 + 256k flash, 256k RAM, 14 or 22 I/O	4.95	4.67	4.54

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## MCUs

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Part No.	Product No.	Pkg.	Description	1	10
793750	MC68HC705J1ACPE	DIP-20	8-bit, 64k RAM/1240b EPROM, 14 I/O, I-temp	\$3.99	\$3.18
793901	MC68HC908Q72CPE	DIP-8	8-bit, 1.5k flash, 128b RAM, 8-bit 4-ch A/D converter	1.99	1.78
793995	MC705C8ACPE	DIP-40	8-bit, on-chip oscillator, 24-bidirect. I/O & 7 input lines	11.35	9.53
794015	MC705C9ACPE	DIP-40	352b RAM, 15k EPROM, 31 I/O, on-chip osc.	11.79	11.67
794031	MC705J1ACDWE	SOIC-20	8-bit, 1240b EPROM, 164b RAM, 14 I/O, on-chip osc.	2.99	2.74
797988	MC908J1TECDWE	SOIC-20	8-bit, 1.5k flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	3.25	2.90
798008	MC908J3CEDWE	SOIC-20	8-bit, 4k flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	2.99	2.92
798016	MC908J3CEDWE	SOIC-28	8-bit, 4k flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	3.85	3.74
798032	MC908JL3ECPWE	DIP-28	8-bit, 4k flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	3.85	3.74
798059	MC908JL3CEDWE	SOIC-28	8-bit, 8k flash, 256b RAM, 13-ch 8-bit ADC, 26 I/O	5.35	5.22
798091	MC908Q72ACPE	DIP-8	8-bit, 1.5k flash, 6-ch 10-bit ADC	★	Call
798112	MC908Q72AMFOE	DFN-8	8-bit, 1.5k flash, 6-ch 10-bit ADC	★	Call
798139	MC9508Q64CFOE	DFN-8	8-bit, 4k flash, 256b RAM, 4-ch ADC, 4 I/O	★	Call
798198	MCHC705JP7CDWE	SOIC-28	6k EPROM, 224b LP RAM, 14 I/O	5.45	5.14
798235	MCHC908Q4YCDWE	SOIC-16	8-bit, 4k flash, 6-ch 10-bit ADC	★	Call
871949	MC705P6ACDWE	SOIC-28	4k EPROM, 176b RAM, 4-ch 8-bit ADC, 20 I/O	5.35	4.41

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Part No.	Product No.	Pkg.	Description	1	10
854541	P80C31SBBB	PQFP-44	128 x 8 RAM ROMless, LV (2.7V-5.5V), LP, hi-speed (16MHz)	\$2.09	\$1.95
917337	P80C32UFAA	PLCC-44	128/256 byte RAM ROMless LV (2.7V-5.5V), LP, hi-speed (33MHz), I-temp	2.25	2.00
917361	P80C32UFBB	PQFP-44	128/256 byte RAM ROMless LV (2.7V-5.5V), LP, hi-speed (33MHz)	2.55	2.34
854575	P80C51FA-4A	PLCC-44	8-bit MCU, ROMLESS, LV (2.7V-5.5V), LP, hi-speed (16MHz)	6.15	5.72
854604	P80C552EFA	PLCC-68	8-bit, single chip w/ 10-bit A/D, timer, hi-speed (16MHz), I-temp	14.55	13.57
854639	P80C552IFA	PLCC-68	8-bit, single chip w/ 10-bit A/D, timer, hi-speed (24MHz), I-temp	15.09	14.07
854655	P80C557E4FB	POFF-80	8-bit single chip, 3.5MHz - 16MHz, I-temp	21.29	19.86
854680	P80C592FFAA	PLCC-68	8-bit w/ on-chip CAN, 1.2MHz - 16MHz, w/o ROM, I-temp	22.89	21.35
854719	P87C51FA-4A	PLCC-64	8-bit, 8k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (16MHz)	7.55	7.03
854743	P87C51FA-5A	PLCC-44	8-bit, 3k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (0-16MHz)	8.35	7.76
854778	P87C51MB2BA02-5	PLCC-44	8-bit w/ extended memory, 64k/96k OTP w/ 2k/3k RAM	7.85	7.39
854831	P87C51RA-IA	PLCC-44	8-bit, 8k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (33MHz)	5.35	4.96
854882	P87C51RD+4A	PLCC-44	8-bit, 64k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (16MHz)	23.65	20.30
854903	P87C52SBBB	QTP-44	8-bit, 4k/8k OTP/ROM, 128/256 B RAM, LV (2.7V-5.5V), LP, hi-speed (16MHz)	3.55	3.28
854938	P87C554SFAA	PLCC-68	8-bit, 16k/15k OTP/RAM, 8-ch, 10-bit A/D, I2C PPM, I-temp	19.85	18.50
854962	P87C591VFAA	PLCC-44	Single chip 8-bit w/ CAN controller	9.59	9.05
917409	P87LPC764BD	SOIC-20	LP w/ 2k OTP, 20MHz (5V) / 10MHz (3V)	2.39	2.23
854997	P87LPC764BDH	SOIC-20	LP w/ 4k OTP, 20MHz (5V) / 10MHz (3V)	2.59	2.39