

# TEXAS INSTRUMENTS MSP430 Microcontrollers

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For quantities greater than listed, call for quote.

## MSP430X2XX DEVELOPMENT TOOLS & ACCESSORIES

MOUSER STOCK NO.		Description	Price Each	MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.			Mfr.	Mfr. Part No.		
595	—MSP-CCE430PRO	Code Composer Essentials Professional v3.1—Unrestricted IDE	568.27	595	—MSP-FET430PIF	MSP430 Parallel Port Debugging Interface	55.80
595	—MSP-FET430U14	MSP430 14 pin Package Board and USB Programmer	169.68	595	—EZ430-RF2500-SEH	MSP430 Solar Energy Harvesting Dev Tool	169.68
595	—EZ430-RF2500T	MSP430 2.4GHz Wireless Target Board	22.78	595	—MSP-FET430UIF	MSP430 USB Debugging Interface	112.75
595	—MSP-FET430U28	MSP430 20 & 28 pin Package Board and USB Programmer	169.68	595	—EZ430-F2013	MSP430 USB Stick Dev Tool	22.78
595	—MSP-FET430U38	MSP430 38 pin Package Board & USB Programmer	169.68	595	—EZ430-T2012	MSP430 USB Stick F2012 Board	11.39
595	—MSP-FET430U64	MSP430 64 pin Packaged Board & USB Programmer	169.68	595	—EZ430-RF2500	MSP430 Wireless Dev Tool	55.80
595	—MSP-TS430PM64	MSP430 64 pin Socket Target Board	85.42	595	—MSP-FET430U23X0	MSP430F23x0 40 pin Package Board & USB Programmer	169.68
595	—MSP-TS430PW14	Flash Emulation Tool for MSP430 Ultra Low Power MCU	85.85	595	—MSP-EXP430FG4618	MSP430FG4618/F2013 Experimenter Board	112.75
595	—MSP-FET430U18	MSP430 80 pin Package Board & USB Programmer	169.68	595	—EZ430-RF2480	Z-Accel Demonstration Kit	112.75
595	—MSP-GANG430	MSP430 In-System Gang Programmer	226.63				

## MSP430X2XX FLASH, NO LCD MICROCONTROLLERS

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Texas Instruments Part No.	Package	Freq (MHz)	Flash (KB)	RAM (B)	GPIO	ADC	Timers	Price Each			
									1	25	100	250
595-MSP430F2001IPWR	MSP430F2001IPWR	TSSOP-14	16	1	128	10	Slope	1 16-bit (2CCR), 1 WD/Int	1.24	1.00	75	.70
595-MSP430F2001IRSAT	MSP430F2001IRSAT	QFN-16	16	1	128	10	Slope	1 16-bit (2CCR), 1 WD/Int	1.37	1.10	.825	.77
595-MSP430F2001TRSAT	MSP430F2001TRSAT	QFN-16	16	1	128	10	Slope	1 16-bit (2CCR), 1 WD/Int	1.37	1.10	.825	.77
595-MSP430F2002IN	MSP430F2002IN	PDIP-14	16	1	128	10	10-bit SAR	1 16-bit (2CCR), 1 WD/Int	1.74	1.40	1.04	.98
595-MSP430F2003IRSAT	MSP430F2003IRSAT	QFN-16	16	1	128	10	16-bit S-D	1 16-bit (2CCR), 1 WD/Int	2.58	2.07	1.61	1.52
595-MSP430F2011IPWR	MSP430F2011IPWR	TSSOP-14	16	2	128	10	Slope	1 16-bit (2CCR), 1 WD/Int	1.49	1.20	.90	.84
595-MSP430F2012IN	MSP430F2012IN	PDIP-14	16	2	128	10	10-bit SAR	1 16-bit (2CCR), 1 WD/Int	2.02	1.62	1.26	1.19
595-MSP430F2012IPWR	MSP430F2012IPWR	TSSOP-14	16	2	128	10	10-bit SAR	1 16-bit (2CCR), 1 WD/Int	2.24	1.80	1.34	1.26
595-MSP430F2012IRSAT	MSP430F2012IRSAT	QFN-16	16	2	128	10	10-bit SAR	1 16-bit (2CCR), 1 WD/Int	2.37	1.90	1.42	1.33
595-MSP430F2012TRSAT	MSP430F2012TRSAT	QFN-16	16	2	128	10	10-bit SAR	1 16-bit (2CCR), 1 WD/Int	2.36	1.89	1.47	1.39
595-MSP430F2013IPWR	MSP430F2013IPWR	TSSOP-14	16	2	128	10	16-bit S-D	1 16-bit (2CCR), 1 WD/Int	2.69	2.16	1.68	1.59
595-MSP430F2013IRSAT	MSP430F2013IRSAT	QFN-16	16	2	128	10	16-bit S-D	1 16-bit (2CCR), 1 WD/Int	2.80	2.25	1.75	1.65
595-MSP430F2013TPW	MSP430F2013TPW	TSSOP-14	16	2	128	10	16-bit S-D	1 16-bit (2CCR), 1 WD/Int	3.03	2.43	1.89	1.79
595-MSP430F2013TRSAT	MSP430F2013TRSAT	QFN-16	16	2	128	10	16-bit S-D	1 16-bit (2CCR), 1 WD/Int	3.15	2.52	1.96	1.86
595-MSP430F2101IPWR	MSP430F2101IPWR	TSSOP-20	16	1	128	16	Slope	1 16-bit (2CCR), 1 WD/Int	1.49	1.20	.896	.84
595-MSP430F2112IPW	MSP430F2112IPW	TSSOP-28	16	2	256	24	10-bit SAR	1 16-bit (2CCR), 1 16-bit (3CCR), 1 WD/Int	2.46	1.98	1.54	1.46
595-MSP430F2112IRHBT	MSP430F2112IRHBT	QFN-32	16	2	256	24	10-bit SAR	1 16-bit (2CCR), 1 16-bit (3CCR), 1 WD/Int	2.58	2.07	1.61	1.52
595-MSP430F2121IDWR	MSP430F2121IDWR	SOIC-20	16	4	256	16	Slope	1 16-bit (2CCR), 1 WD/Int	2.02	1.62	1.26	1.19
595-MSP430F2121IPWR	MSP430F2121IPWR	TSSOP-20	16	4	256	16	Slope	1 16-bit (2CCR), 1 WD/Int	2.02	1.62	1.26	1.19
595-MSP430F2122IPW	MSP430F2122IPW	TSSOP-28	16	4	512	24	10-bit SAR	1 16-bit (2CCR), 1 16-bit (3CCR), 1 WD/Int	3.14	2.52	1.96	1.85
595-MSP430F2122IPWR	MSP430F2122IPWR	TSSOP-28	16	4	512	24	10-bit SAR	1 16-bit (3CCR), 1 16-bit (2CCR), 1 WD/Int	3.14	2.52	1.96	1.85
595-MSP430F2122IRHBR	MSP430F2122IRHBR	QFN-32	16	4	512	24	10-bit SAR	1 16-bit (3CCR), 1 16-bit (2CCR), 1 WD/Int	3.14	2.52	1.96	1.85
595-MSP430F2131IDWR	MSP430F2131IDWR	SOIC-20	16	8	256	16	Slope	1 16-bit (2CCR), 1 WD/Int	2.70	2.16	1.68	1.59
595-MSP430F2131IRGET	MSP430F2131IRGET	QFN-24	16	8	256	16	Slope	1 16-bit (2CCR), 1 WD/Int	2.81	2.25	1.75	1.66
595-MSP430F2131TRGET	MSP430F2131TRGET	QFN-24	16	8	256	16	Slope	1 16-bit (2CCR), 1 WD/Int	3.04	2.43	1.89	1.79
595-MSP430F2132IPW	MSP430F2132IPW	TSSOP-28	16	8	512	24	10-bit SAR	1 16-bit (2CCR), 1 16-bit (3CCR), 1 WD/Int	3.36	2.70	2.10	1.98
595-MSP430F2132IPWR	MSP430F2132IPWR	TSSOP-28	16	8	512	24	10-bit SAR	1 16-bit (3CCR), 1 16-bit (2CCR), 1 WD/Int	3.36	2.70	2.10	1.98
595-MSP430F2132IRHBR	MSP430F2132IRHBR	QFN-32	16	8	512	24	10-bit SAR	1 16-bit (3CCR), 1 16-bit (2CCR), 1 WD/Int	3.36	2.70	2.10	1.98
595-MSP430F2132IRHBT	MSP430F2132IRHBT	QFN-32	16	8	512	24	10-bit SAR	1 16-bit (2CCR), 1 16-bit (3CCR), 1 WD/Int	3.48	2.79	2.17	2.05
595-MSP430F2323TPMR	MSP430F2323TPMR	LQFP-64	16	8	1K	48	12-bit SAR	2 16-bit (3CCR), 1 WD/Int	5.40	4.32	3.36	3.19
595-MSP430F2323IRHAT	MSP430F2323IRHAT	QFN-40	16	8	512	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	3.81	3.06	2.38	2.31
595-MSP430F2252IDA	MSP430F2252IDA	TSSOP-38	16	16	512	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	4.38	3.51	2.73	2.58
595-MSP430F2252IDAR	MSP430F2252IDAR	TSSOP-38	16	16	512	32	10-bit SAR	2 16-bit (3CCR), 1 WD/Int	4.38	3.51	2.73	2.58
595-MSP430F2252IRHAT	MSP430F2252IRHAT	QFN-40	16	16	512	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	4.50	3.60	2.80	2.65
595-MSP430F2254IRHAR	MSP430F2254IRHAR	QFN-40	16	16	512	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	4.83	3.87	3.01	2.85
595-MSP430F2272IDAR	MSP430F2272IDAR	TSSOP-38	16	32	1K	32	10-bit SAR	2 16-bit (3CCR), 1 WD/Int	4.40	3.52	2.96	2.86
595-MSP430F2272IRHAT	MSP430F2272IRHAT	QFN-40	16	32	1K	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	4.50	3.60	3.03	2.92
595-MSP430F2272TDA	MSP430F2272TDA	TSSOP-38	16	32	1K	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	4.90	3.92	3.03	3.18
595-MSP430F2274IDA	MSP430F2274IDA	TSSOP-38	16	32	1K	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	4.90	3.92	3.30	3.18
595-MSP430F2274IRHAT	MSP430F2274IRHAT	QFN-40	16	32	1K	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	5.00	4.00	3.37	3.25
595-MSP430F2274TRHAT	MSP430F2274TRHAT	QFN-40	16	32	1K	32	10-bit SAR	1 WD/Int, 2 16-bit (3CCR)	5.50	4.40	3.71	3.57
595-MSP430F2330IRHAT	MSP430F2330IRHAT	QFN-40	16	8	1K	32	Slope	1 WD/Int, 2 16-bit (3CCR)	4.04	3.24	2.52	2.39
595-MSP430F2350IRHAT	MSP430F2350IRHAT	QFN-40	16	16	2K	32	Slope	1 WD/Int, 2 16-bit (3CCR)	4.83	3.87	3.01	2.86
595-MSP430F2350TRHAT	MSP430F2350TRHAT	QFN-40	16	16	2K	32	Slope	1 WD/Int, 2 16-bit (3CCR)	5.06	4.05	3.15	2.99
595-MSP430F235TPM	MSP430F235TPM	LQFP-64	16	16	2K	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)	5.20	4.16	3.50	3.38
595-MSP430F235TRGCT	MSP430F235TRGCT	QFN-64	16	16	2K	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)	5.30	4.24	3.57	3.44
595-MSP430F2370IRHAT	MSP430F2370IRHAT	QFN-40	16	32	2K	32	Slope	1 WD/Int, 2 16-bit (3CCR)	4.95	3.96	3.08	2.92
595-MSP430F2370TRHAT	MSP430F2370TRHAT	QFN-40	16	32	2K	32	Slope	1 WD/Int, 2 16-bit (3CCR)	5.51	4.41	3.43	3.25
595-MSP430F2410TPMR	MSP430F2410TPMR	LQFP-64	16	56	4K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	9.20	7.36	6.20	5.97
595-MSP430F2417TPM	MSP430F2417TPM	LQFP-64	16	92	8K	-	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	7.63	7.20	6.38	6.13
595-MSP430F2418TPM	MSP430F2418TPM	LQFP-64	16	116	8K	-	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	8.34	7.50	6.64	6.39
595-MSP430F2418TPMR	MSP430F2418TPMR	LQFP-64	16	116	8K	-	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	8.32	7.50	6.64	6.37
595-MSP430F2418TPN	MSP430F2418TPN	LQFP-80	16	116	8K	-	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	8.34	7.50	6.64	6.39
595-MSP430F2419TPM	MSP430F2419TPM	LQFP-64	16	120	4K	-	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	8.84	7.95	7.04	6.77
595-MSP430F2471TPM	MSP430F2471TPM	LQFP-64	16	32	4K	48	Slope	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	7.40	5.92	4.99	4.81
595-MSP430F247TPM	MSP430F247TPM	LQFP-64	16	32	4K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	6.80	5.44	4.58	4.41
595-MSP430F247TPMR	MSP430F247TPMR	LQFP-64	16	32	4K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	6.80	5.44	4.58	4.41
595-MSP430F247TRGCT	MSP430F247TRGCT	QFN-64	16	32	4K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	6.90	5.52	4.65	4.48
595-MSP430F2481TPM	MSP430F2481TPM	LQFP-64	16	48	4K	48	Slope	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	7.00	5.60	4.71	4.54
595-MSP430F248TPM	MSP430F248TPM	LQFP-64	16	48	4K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	8.00	6.40	5.40	5.20
595-MSP430F248TPMR	MSP430F248TPMR	LQFP-64	16	48	4K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	8.00	6.40	5.40	5.20
595-MSP430F249TPM	MSP430F249TPM	LQFP-64	16	60	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	8.70	6.96	5.87	5.65
595-MSP430F249TPMR	MSP430F249TPMR	LQFP-64	16	60	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	8.70	6.96	5.87	5.65
595-MSP430F2616TPM	MSP430F2616TPM	LQFP-64	16	92	4K	-	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	9.76	8.77	7.77	7.48
595-MSP430F2617TPM	MSP430F2617TPM	LQFP-64	16	92	8K	-	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int	10.10	9.07	8.04	7.73