

# TEXAS INSTRUMENTS MSP430 Microcontrollers



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MSP430x1xx – These non-LCD flash/ROM based MCUs offer 1.8V to 3.6V operation, up to 60kB, 8MIPS with Basic Clock. Includes a wide range of peripherals from a simple low power comparator to high-performance data converters, interfaces and multiplier.

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## MSP430X1XX FLASH/ROM 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
595-430F1101AIPW	MSP430F1101AIPW	TSSOP-20	8	1	128	14	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1111AIDW	MSP430F1111AIDW	SOIC-20	8	2	128	14	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1111AIPW	MSP430F1111AIPW	TSSOP-20	8	2	128	14	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1111AIRGET	MSP430F1111AIRGET	QFN-24	8	2	128	14	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1121AIDW	MSP430F1121AIDW	SOIC-20	8	4	256	14	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1121AIPW	MSP430F1121AIPW	TSSOP-20	8	4	256	14	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1122IPW	MSP430F1122IPW	TSSOP-20	8	4	256	14	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-430F1132IPW	MSP430F1132IPW	TSSOP-20	8	8	256	14	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-MSP430F1132IRHBT	MSP430F1132IRHBT	QFN-32	8	8	256	14	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-430F1221RHBT	MSP430F1221RHBT	QFN-32	8	4	256	22	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1222IDW	MSP430F1222IDW	SOIC-28	8	4	256	22	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-430F1222IRHBT	MSP430F1222IRHBT	QFN-32	8	4	256	22	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-430F1231DW	MSP430F1231DW	SOIC-28	8	8	256	22	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1231PW	MSP430F1231PW	TSSOP-28	8	8	256	22	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1231RHBT	MSP430F1231RHBT	QFN-32	8	8	256	22	Slope	1 16-bit (3CCR), 1 WD/Int				
595-430F1232IDW	MSP430F1232IDW	SOIC-28	8	8	256	22	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-430F1232IPW	MSP430F1232IPW	TSSOP-28	8	8	256	22	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-430F1232IPWR	MSP430F1232IPWR	TSSOP-28	8	8	256	22	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-430F1232IRHBR	MSP430F1232IRHBR	QFN-32	8	8	256	22	10-bit SAR	1 16-bit (3CCR), 1 WD/Int				
595-430F1331PAG	MSP430F1331PAG	TQFP-64	8	8	256	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				
595-430F1351PAG	MSP430F1351PAG	TQFP-64	8	16	512	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				
595-430F1351PM	MSP430F1351PM	LQFP-64	8	16	512	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				
595-430F1351PMR	MSP430F1351PMR	LQFP-64	8	16	512	48	12-bit SAR	2 16-bit (3CCR), 1 WD/Int				
595-MSP430F1351RTDT	MSP430F1351RTDT	QFN-64	8	16	512	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				
595-430F1471PAG	MSP430F1471PAG	TQFP-64	8	32	1K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1471PM	MSP430F1471PM	LQFP-64	8	32	1K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1471PMR	MSP430F1471PMR	LQFP-64	8	32	1K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1481PM	MSP430F1481PM	LQFP-64	8	48	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1481PMR	MSP430F1481PMR	LQFP-64	8	48	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-MSP430F1481RTDT	MSP430F1481RTDT	QFN-64	8	48	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-MSP430F1481RTDT	MSP430F1481RTDT	QFN-64	8	48	2K	48	Slope	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1491PAG	MSP430F1491PAG	TQFP-64	8	60	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1491PM	MSP430F1491PM	LQFP-64	8	60	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1491PMR	MSP430F1491PMR	LQFP-64	8	60	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1491IPM	MSP430F1491IPM	LQFP-64	8	60	2K	48	Slope	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1551PM	MSP430F1551PM	LQFP-64	8	16	512	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				
595-430F1561PM	MSP430F1561PM	LQFP-64	8	24	1K	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				
595-430F1571PM	MSP430F1571PM	LQFP-64	8	32	1K	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				
595-MSP430F1610IPM	MSP430F1610IPM	LQFP-64	8	32	5K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-MSP430F1611IPM	MSP430F1611IPM	LQFP-64	8	48	10K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-MSP430F1611IPMR	MSP430F1611IPMR	LQFP-64	8	48	10K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-MSP430F1611IRTD	MSP430F1611IRTD	QFN-64	8	48	10K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-MSP430F1612IPM	MSP430F1612IPM	LQFP-64	8	55	5K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1671PM	MSP430F1671PM	LQFP-64	8	32	1K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1671PMR	MSP430F1671PMR	LQFP-64	8	32	1K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1681PM	MSP430F1681PM	LQFP-64	8	48	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1691PM	MSP430F1691PM	LQFP-64	8	60	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1691PMR	MSP430F1691PMR	LQFP-64	8	60	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-MSP430F1691RTDT	MSP430F1691RTDT	QFN-64	8	60	2K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1331PM	MSP430F1331PM	LQFP-64	8	8	256	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				
595-MSP430F1612IRTD	MSP430F1612IRTD	QFN-64	8	55	5K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1471IPM	MSP430F1471IPM	LQFP-64	8	32	1K	48	Slope	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1121AIDGV	MSP430F1121AIDGV	TVSOP-20	8	4	256	14	Slope	1 16-bit (3CCR), 1 WD/Int				
595-MSP430F1471IRTD	MSP430F1471IRTD	QFN-64	8	32	1K	48	Slope	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-MSP430F1471RTDT	MSP430F1471RTDT	QFN-64	8	32	1K	48	12-bit SAR	1 16-bit (3CCR), 1 16-bit (7CCR), 1 WD/Int				
595-430F1571PMR	MSP430F1571PMR	LQFP-64	8	32	1K	48	12-bit SAR	1 WD/Int, 2 16-bit (3CCR)				

## MSP430G2XX FLASH NO LCD MICROCONTROLLERS

The Texas Instruments MSP430 family of ultra-low-power microcontrollers consists of several devices featuring different sets of peripherals targeted for various applications. The architecture, combined with five low-power modes, is optimized to achieve extended battery life in portable measurement applications. The device features a powerful 16-bit RISC CPU, 16-bit registers, and constant generators that contribute to maximum code efficiency. The digitally controlled oscillator (DCO) allows wake-up from low-power modes to active mode in less than 1 μs.



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MOUSER STOCK NO.	Texas Instruments Part No.	Package	Freq (MHz)	Flash (KB)	RAM (B)	GPIO	ADC	Timers	Price Each			
									1	25	100	250
595-MSP430G2001IN14	MSP430G2001IN14	DIP-14	16	0.512	128	10	---	1x16-Bit (TA2)				
595-MSP430G2001IPW14	MSP430G2001IPW14	TSSOP-14	16	0.512	128	10	---	1x16-Bit (TA2)				
595-MSP430G2211IPW14	MSP430G2211IPW14	TSSOP-14	16	2	128	10	---	1x16-Bit (TA2)				
595-MSP430G2221IN14	MSP430G2221IN14	DIP-14	16	2	128	10	---	1x16-Bit (TA2)				
595-MSP430G2231IN14	MSP430G2231IN14	DIP-14	16	2	128	10	8x10-Bit	1x16-Bit (TA2)				
595-MSP430G2231IPW14	MSP430G2231IPW14	TSSOP-14	16	2	128	10	8x10-Bit	1x16-Bit (TA2)				

