

Part Number	Status	Frequency (MHz)	Other Integrated Peripherals	End Equipment Optimized	Flash	RAM	GPIO	ADC	Timers	Interface	Temp Sensor	Brown Out Reset	Pin/Package	Approx. Price (US\$)	Description
MSP430F2001	ACTIVE	16	Analog Comparator		1 KB	128 B	10	Slope	1 16-bit (2CCR) , 1 Watchdog/Interval	Timer UART		Yes	14PDIP, 14TSSOP, 16QFN	0.50   1ku	16-bit Ultra-Low-Power Microcontroller, 1kB Flash, 128B RAM, Comparator
MSP430F2002	ACTIVE	16			1 KB	128 B	10	10-bit SAR	1 16-bit (2CCR) , 1 Watchdog/Interval	USI (SPI or I2C)	Yes	Yes	14PDIP, 14TSSOP, 16QFN	0.70   1ku	16-bit Ultra-Low-Power Microcontroller, 1kB Flash, 128B RAM, 10-Bit SAR A/D, USI for SPI/I2C
MSP430F2003	ACTIVE	16			1 KB	128 B	10	16-bit Sigma Delta	1 16-bit (2CCR) , 1 Watchdog/Interval	USI (SPI or I2C)	Yes	Yes	14PDIP, 14TSSOP, 16QFN	1.10   1ku	16-bit Ultra-Low-Power Microcontroller, 1kB Flash, 128B RAM, 16-Bit Sigma-Delta A/D, USI for SPI/I2C
MSP430F2011	ACTIVE	16	Analog Comparator		2 KB	128 B	10	Slope	1 16-bit (2CCR) , 1 Watchdog/Interval	Timer UART		Yes	14PDIP, 14TSSOP, 16QFN	0.60   1ku	16-bit Ultra-Low-Power Microcontroller, 2kB Flash, 128B RAM, Comparator
MSP430F2012	ACTIVE	16			2 KB	128 B	10	10-bit SAR	1 16-bit (2CCR) , 1 Watchdog/Interval	USI (SPI or I2C)	Yes	Yes	14PDIP, 14TSSOP, 16QFN	0.90   1ku	16-bit Ultra-Low-Power Microcontroller, 2kB Flash, 128B RAM, 10-Bit SAR A/D, USI for SPI/I2C
MSP430F2013	ACTIVE	16			2 KB	128 B	10	16-bit Sigma Delta	1 16-bit (2CCR) , 1 Watchdog/Interval	USI (SPI or I2C)	Yes	Yes	14PDIP, 14TSSOP, 16QFN	1.20   1ku	16-bit Ultra-Low-Power Microcontroller, 2kB Flash, 128B RAM, 16-Bit Sigma-Delta A/D, USI for SPI/I2C
MSP430F2101	ACTIVE	16	Analog Comparator		1 KB	128 B	16	Slope	1 16-bit (3CCR) , 1 Watchdog/Interval	Timer UART		Yes	20SOIC, 20TSSOP, 20TVSOP, 24VQFN	0.60   1ku	16-bit Ultra-Low-Power Microcontroller, 1kB Flash, 128B RAM, Comparator
MSP430F2111	ACTIVE	16	Analog Comparator		2 KB	128 B	16	Slope	1 16-bit (3CCR) , 1 Watchdog/Interval	Timer UART		Yes	20SOIC, 20TSSOP, 20TVSOP, 24VQFN	0.70   1ku	16-bit Ultra-Low-Power Microcontroller, 2kB Flash, 128B RAM, Comparator
MSP430F2112	ACTIVE	16		Battery Chargers , Smoke Detectors , Wireless Sensors	2 KB	256 B	24	10-bit SAR	1 16-bit (2CCR) , 1 16-bit (3CCR) , 1 Watchdog/Interval	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	28TSSOP, 32QFN	1.10   1ku	16-bit Ultra-Low-Power Microcontroller, 2kB Flash, 256B RAM, 10-bit ADC, 1 USCI
MSP430F2121	ACTIVE	16	Analog Comparator		4 KB	256 B	16	Slope	1 16-bit (3CCR) , 1 Watchdog/Interval	Timer UART		Yes	20SOIC, 20TSSOP, 20TVSOP, 24VQFN	0.90   1ku	16-bit Ultra-Low-Power Microcontroller, 4kB Flash, 256B RAM, Comparator
MSP430F2122	ACTIVE	16		Battery Chargers , Smoke Detectors , Wireless Sensors	4 KB	512 B	24	10-bit SAR	1 16-bit (2CCR) , 1 16-bit (3CCR) , 1 Watchdog/Interval	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	28TSSOP, 32QFN	1.40   1ku	16-bit Ultra-Low-Power Microcontroller, 4kB Flash, 512B RAM, 10-bit ADC, 1 USCI
MSP430F2131	ACTIVE	16	Analog Comparator		8 KB	256 B	16	Slope	1 16-bit (3CCR) , 1 Watchdog/Interval	Timer UART		Yes	20SOIC, 20TSSOP, 20TVSOP, 24VQFN	1.20   1ku	16-bit Ultra-Low-Power Microcontroller, 8kB Flash, 256B RAM, Comparator
MSP430F2132	ACTIVE	16		Battery Chargers , Smoke Detectors , Wireless Sensors	8 KB	512 B	24	10-bit SAR	1 16-bit (2CCR) , 1 16-bit (3CCR) , 1 Watchdog/Interval	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	28TSSOP, 32QFN	1.50   1ku	16-bit Ultra-Low-Power Microcontroller, 8kB Flash, 512B RAM, 10-bit ADC, 1 USCI
MSP430F2232	ACTIVE	16			8 KB	512 B	32	10-Bit SAR	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	38TSSOP, 40VQFN	1.65   1ku	16-bit Ultra-Low-Power Microcontroller, 8kB Flash, 512B RAM
MSP430F2234	ACTIVE	16	2 Op Amp		8 KB	512 B	32	10-Bit SAR	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	38TSSOP, 40VQFN	1.85   1ku	16-bit Ultra-Low-Power Microcontroller, 8kB Flash, 512B RAM
MSP430F2252	ACTIVE	16			16 KB	512 B	32	10-Bit SAR	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	38TSSOP, 40VQFN	1.95   1ku	16-bit Ultra-Low-Power Microcontroller, 16kB Flash, 512B RAM
MSP430F2254	ACTIVE	16	2 Op Amp		16 KB	512 B	32	10-Bit SAR	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	38TSSOP, 40VQFN	2.15   1ku	16-bit Ultra-Low-Power Microcontroller, 16kB Flash, 512B RAM
MSP430F2272	ACTIVE	16			32 KB	1 KB	32	10-Bit SAR	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	38TSSOP, 40VQFN	2.20   1ku	16-bit Ultra-Low-Power Microcontroller, 32kB Flash, 1K RAM
MSP430F2274	ACTIVE	16	2 Op Amp		32 KB	1 KB	32	10-Bit SAR	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	38TSSOP, 40VQFN	2.45   1ku	16-bit Ultra-Low-Power Microcontroller, 32kB Flash, 1K RAM
MSP430F233	ACTIVE	16	Analog Comparator, Hardware Multiplier, SVS		8 KB	1 KB	48	12-bit SAR	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	2.40   1ku	16-bit Ultra-Low-Power Microcontroller, 8KB Flash, 1KB RAM, 12-Bit ADC, USCI, HW Multiplier
MSP430F2330	ACTIVE	16	Analog Comparator , Hardware Multiplier		8 KB	1 KB	32	Slope	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)		Yes	40VQFN, 49DSBGA	1.75   1ku	16-bit Ultra-Low-Power Microcontroller, 8KB Flash, 1024B RAM, Comparator
MSP430F235	ACTIVE	16	Analog Comparator, Hardware Multiplier, SVS		16 KB	2 KB	48	12-bit SAR	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	2.60   1ku	16-bit Ultra-Low-Power Microcontroller, 16KB Flash, 2KB RAM, 12-Bit ADC, USCI, HW Multiplier
MSP430F2350	ACTIVE	16	Analog Comparator , Hardware Multiplier		16 KB	2 KB	32	Slope	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)		Yes	40VQFN, 49DSBGA	2.00   1ku	16-bit Ultra-Low-Power Microcontroller, 16KB Flash, 2048B RAM, Comparator
MSP430F2370	ACTIVE	16	Analog Comparator , Hardware Multiplier		32 KB	2 KB	32	Slope	1 Watchdog/Interval , 2 16-bit (3CCR)	1 USCI_A (UART/LIN/IrDA/SPI) , 1 USCI_B (I2C/SPI)		Yes	40VQFN, 49DSBGA	2.15   1ku	16-bit Ultra-Low-Power Microcontroller, 32KB Flash, 2048B RAM, Comparator
MSP430F2410	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS	Wireless Communication	56 KB	4 KB	48	12-bit SAR	1 16-bit (3CCDR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	4.60   1ku	16-bit Ultra-Low-Power Microcontroller, 56KB Flash, 4KB RAM, 12-Bit ADC, 2 USCI, HW Multiplier
MSP430F2416	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS	ZigBee/RF	92 KB	4 KB	48, 64	12-bit SAR	1 16-bit (3CCR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	113BGA MICROSTAR JUNIOR, 64LQFP, 80LQFP	4.70   1ku	16-Bit Ultra-Low-Power Microcontroller, 92KB Flash, 4KB RAM, 12 Bit ADC, 2 USCI, HW Multiplier
MSP430F2417	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS	ZigBee/RF	92 KB	8 KB	48, 64	12-bit SAR	1 16-bit (3CCR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	113BGA MICROSTAR JUNIOR, 64LQFP, 80LQFP	4.80   1ku	16-bit Ultra-Low-Power Microcontroller, 92KB Flash, 8KB RAM, 12 Bit ADC, 2 USCI, HW Multiplier
MSP430F2418	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS	ZigBee/RF	116 KB	8 KB	48, 64	12-bit SAR	1 16-bit (3CCR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	113BGA MICROSTAR JUNIOR, 64LQFP, 80LQFP	5.00   1ku	16-Bit Ultra-Low-Power Microcontroller, 116KB Flash, 8KB RAM, 12 Bit ADC, 2 USCI, HW Multiplier
MSP430F2419	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS	ZigBee/RF	120 KB	4 KB	48, 64	12-bit SAR	1 16-bit (3CCR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	113BGA MICROSTAR JUNIOR, 64LQFP, 80LQFP	5.30   1ku	16-Bit Ultra-Low-Power Microcontroller, 120KB Flash, 4KB RAM, 12 Bit ADC, 2 USCI, HW Multiplier
MSP430F247	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS	Wireless Communication	32 KB	4 KB	48	12-bit SAR	1 16-bit (3CCDR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	3.40   1ku	16-bit Ultra-Low-Power Microcontroller, 32KB Flash, 4KB RAM, 12-Bit ADC, 2 USCI, HW Multiplier
MSP430F2471	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS		32 KB	4 KB	48	Slope	1 16-bit (3CCDR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	3.15   1ku	16-bit Ultra-Low-Power Microcontroller, 32KB Flash, 4KB RAM, 2 USCI, HW Multiplier
MSP430F248	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS	Wireless Communication	48 KB	4 KB	48	12-bit SAR	1 16-bit (3CCDR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	4.00   1ku	16-bit Ultra-Low-Power Microcontroller, 48KB Flash, 4KB RAM, 12-Bit ADC, 2 USCI, HW Multiplier
MSP430F2481	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS		48 KB	4 KB	48	Slope	1 16-bit (3CCDR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	3.50   1ku	16-bit Ultra-Low-Power Microcontroller, 48KB Flash, 4KB RAM, 2 USCI, HW Multiplier
MSP430F249	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS	Wireless Communication	60 KB	2 KB	48	12-bit SAR	1 16-bit (3CCDR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	4.35   1ku	16-bit Ultra-Low-Power Microcontroller, 60KB Flash, 2KB RAM, 12-Bit ADC, 2 USCI, HW Multiplier
MSP430F2491	ACTIVE	16	Analog Comparator , Hardware Multiplier , SVS		60 KB	2 KB	48	Slope	1 16-bit (3CCDR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	64LQFP, 64VQFN	3.80   1ku	16-bit Ultra-Low-Power Microcontroller, 60KB Flash, 2KB RAM, 2 USCI, HW Multiplier
MSP430F2616	ACTIVE	16	2 DAC 12 , Analog Comparator , DMA , Hardware Multiplier , SVS	Wireless Sensor Networking	92 KB	4 KB	48, 64	12-bit SAR	1 16-bit (3CCR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	113BGA MICROSTAR JUNIOR, 64LQFP, 80LQFP	5.85   1ku	16-Bit Ultra-Low-Power MCU, 92KB Flash, 4KB RAM, 12-Bit ADC, Dual DAC, 2 USCI, HW Mult, DMA
MSP430F2617	ACTIVE	16	2 DAC 12 , Analog Comparator , DMA , Hardware Multiplier , SVS	ZigBee/RF	92 KB	8 KB	48, 64	12-bit SAR	1 16-bit (3CCR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	113BGA MICROSTAR JUNIOR, 64LQFP, 80LQFP	6.05   1ku	16-Bit Ultra-Low-Power MCU, 92KB Flash, 8KB RAM, 12-Bit ADC, Dual DAC, 2 USCI, HW Mult, DMA
MSP430F2618	ACTIVE	16	2 DAC 12 , Analog Comparator , DMA , Hardware Multiplier , SVS	ZigBee/RF	116 KB	8 KB	48, 64	12-bit SAR	1 16-bit (3CCR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	113BGA MICROSTAR JUNIOR, 64LQFP, 80LQFP	6.35   1ku	16-Bit Ultra-Low-Power MCU, 116KB Flash, 8KB RAM, 12-Bit ADC, Dual DAC, 2 USCI, HW Mult, DMA
MSP430F2619	ACTIVE	16	2 DAC 12 , Analog Comparator , DMA , Hardware Multiplier , SVS	Wireless Sensor Networking	120 KB	4 KB	48, 64	12-bit SAR	1 16-bit (3CCR) , 1 16-bit (7CCR) , 1 Watchdog/Interval	2 USCI_A (UART/LIN/IrDA/SPI) , 2 USCI_B (I2C/SPI)	Yes	Yes	113BGA MICROSTAR JUNIOR, 64LQFP, 80LQFP	6.65   1ku	16-Bit Ultra-Low-Power MCU, 92KB Flash, 4KB RAM, 12-Bit ADC, Dual DAC, 2 USCI, HW Mult, DMA