














Microcontrollers (MCUs)		ARM®-based Processors			Digital Signal Processors (DSP)	
16-bit Ultra Low Power MCU  MSP430™	32-bit Real-Time MCUs  C2000™	32-bit ARM® MCU  Tiva™ C Series Cortex™-M4  TMS570 Cortex™-R4  RM4 Cortex™-R4F	32-bit ARM® Processors for Performance Applications  Sitara™ Cortex™-A8 and ARM9™  KeyStone Cortex™-A15 and Cortex™-A15 + DSP	Application Processors  OMAP™ Processors with Cortex™-A8, A9 and A15	Singlecore DSP  C6000™ Power Optimized  C5000™ Ultra Low Power	Multicore DSP  KeyStone Multicore  KeyStone Multicore DSP+ARM  C6000™ Multicore
Frequency Up to 25MHz	Frequency 40MHz to 300MHz	Frequency Up to 220MHz	Frequency 300MHz to 5 GHz	Frequency Up to 1.7 GHz	Frequency Up to 1.5 GHz Floating DSP + Video Accelerators + FFT Accelerators	Frequency Up to 15GHz Multicore, fixed/floating + Accelerators
Memory (KB) Flash 1KB to 256KB	Memory (KB) Flash, RAM 16KB to 512KB	Memory (KB) Flash 64 KB to 3MB	Memory (KB) Up to 32KB I/D cache 256 KB L2, LPDDR1, DDR2/3 support	Memory (KB) Up to 32KB i/D L1 caches and 2 MB L2 cache	Memory (KB) L2 Cache mDDR, DDR2/DDR3 Up to 320 KB RAM Up to 256 KB ROM	Memory (KB) Up to 4 MB SL2, 32 KB L1, 1MB L2
Key Attributes Analog I/O, ADC, LCD, USB	Key Attributes PWM, ADC, CAN, SPI, I2C	Key Attributes USB, ENET MAC+PHY, CAN, ADC, PWM, SPI	Key Attributes USB 3.0 +PHY, Gigabit Ethernet MAC, PCIe+PHY, SATA+PHY, CAN, PRU-ICSS, 3D graphics, touchscreen	Key Attributes USB2/3, eMMC, SD/MMC, I2S, SPI, UART, HDMI, SATA, multiple camera, multiple display	Key Attributes USB 2.0 +PHY, Gb EMAC, PCIe+PHY, SATA+PHY, CAN, PRU ADC, SPI McBSP, I2C, LCD, On-chip regulators	Key Attributes C66x DSP, ARM® Cortex™-A15, RapidIO, PCIe, 10GigE, USB 3.0, Hyperlink, DDR3, NetCP
Applications Measurement, sensing, general purpose	Applications Industrial automation, retail applications/point-of sale, HMI (Human Machine Interface), smart grid, cloud infrastructure	Applications Motion control, HMI, industrial automation, automotive, safety	Applications Industrial automation, retail applications/point-of sale, HMI (Human Machine Interface), smart grid, home and building automation.	Applications Automotive, industrial automation, enterprise and mobile consumer	Applications Portable audio/voice, fingerprint biometrics, portable medical, video, security, conferencing, test and measurement	Applications Machine vision, video infrastructure, medical imaging, mission critical, base stations
\$0.25 to \$9.00 USD	\$1.85 to \$20.00 USD	\$1.00 to \$8.00 USD	\$5.00 to \$140.00 USD	\$5.00 to \$200.00 USD	\$1.99 to \$200.00 USD	\$1.99 to \$200.00 USD