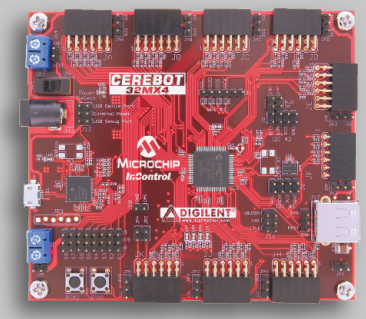
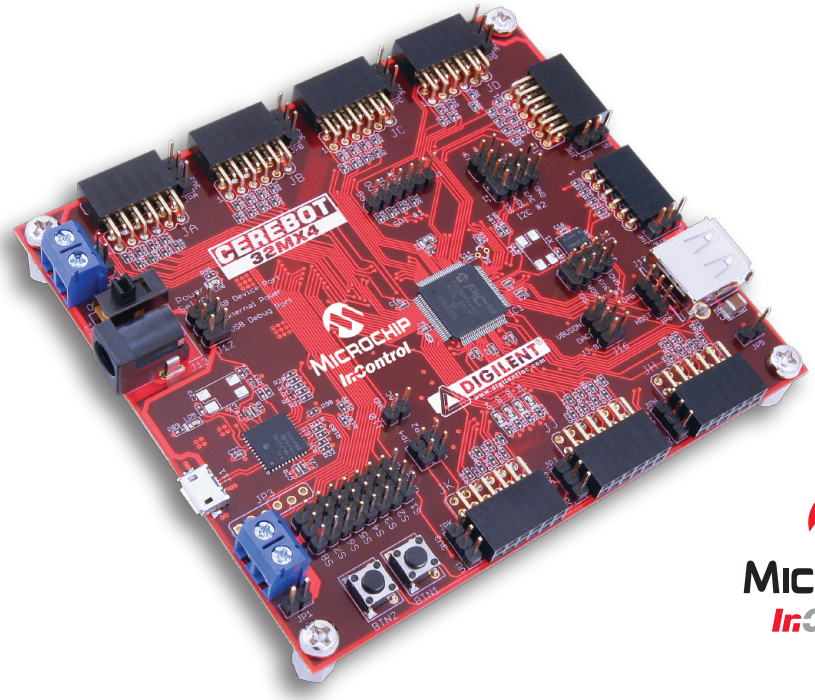
DIGILENT®
BEYOND THEORY

CEREBOT™ 32MX4

Hands-on computer science with modern microcontrollers



CEREBOT™ 32MX4

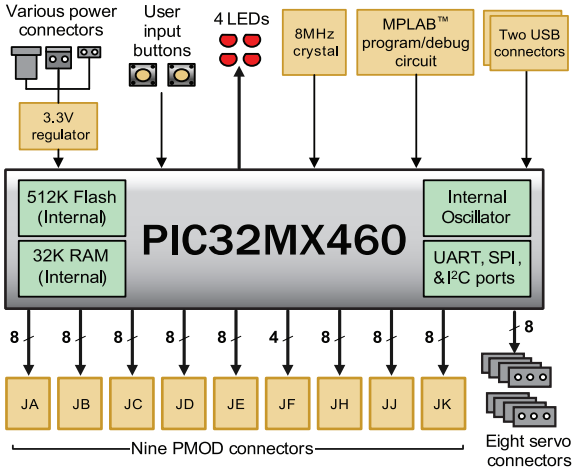


MICROCHIP
InControl

- Microchip® PIC32MX460F512L
- 80 MHz 32-bit MIPS processor
- 512K Flash, 32K RAM
- USB Program / Debug Interface
- USB OTG Host/Device Capable
- USB Powered
- 16 channel, 10-bit, 500ksps A/D converter
- Five 16-bit timers with 5 input capture and 5 PWM outputs
- Onboard Buttons and LEDs
- Nine Pmod Connectors (8 x 12-pin, 1 x 6-pin)
- Two SPI ports, two I2C ports, two UARTs
- All I/Os ESD & Short-Circuit Protected

The Digilent Cerebot™ 32MX4 Board is a powerful microcontroller development board suitable for embedded control and robotics projects for both students and hobbyists.

The Cerebot 32MX4 features one of the new Microchip® PIC32™ microcontrollers. The PIC32 provides a 32-bit MIPS processor core operating at 80Mhz, 512K bytes of program FLASH and 32K bytes of RAM and numerous peripheral devices, including a USB controller, timer/counters, serial interface controllers, A/D converter and more. The board has numerous I/O connectors and power supply options, including USB power. It also has a built in programming and debug circuit compatible with the Microchip MPLAB development software.



The Cerebot 32MX4 has a nine connectors for Digilent Pmod peripheral modules. Digilent Pmods include H-bridges, analog-to-digital and digital-to-analog converters, a speaker, switches, buttons, LEDs, as well as converters for easy connection to RS232, screw terminals, BNC jacks, servo motors, and more.