

Datasheet Summary

Processor Board

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54-0501-R02

Processor: PIC18F46K22-I/MV Part Number: 20-0501-PIC18F46K22

General Description

This Plugin Processor board is part of a Cost effective Evaluation Board family. Use Standalone or Stacked.

Stack it with one or more Interface & Sensor Boards to expand the functionality for different applications.

The interface connectors are designed to be compatible with LaunchPad Development Kits from Texas Instruments.

http://www.ti.com/ww/en/launchpad/launchpads.html



Processor Highlights

- Microchip PIC 8-bit
- 64 Kbytes of Flash memory, 3896 bytes of SRAM
- 1024 bytes of EEPROM
- 36 GPIO
- 4x 16-bit and 3x 8-bit timers
- Watchdog timer (WDT)
- 2 UART (RX/TX)
- 1 I2C (SDA, SCK) (Or use as SPI2)
- 1 SPI (MOSI, MISO, CLK) (Or I2C2)
- 4 channels PWM output (Or Capture Compare)
- 1 x 10-bit, 1.0 μs ADC (Up to 30 channels)
- One 5-bit D/A converter (DAC)
- Two analog comparators
- SR Latch

Data sheets for the Processor can be found on Microchip's website

http://www.microchip.com/wwwproducts/en/PIC18F46K2 2

Features

- 2 Analog Input
- 1 UART (RX/TX) to IO Connector
- 1 UART (RX/TX) to IO Output/Debug
- 4 GPIO
- 2 GPIO Used for LEDs(RED GREEN)
- 1 GPIO Used as RST
- 1 SPI (MOSI, MISO, CLK) with SS1/SS2
- 1 I2C
- 1 PWM Output
- 1 DAC Output

Crystal – 8MHz

The Crystel is not populated. If needed, a crystal and two (2) capacitors can be soldered onto the existing pads.

Power Supply

User can supply +5V0 via P301 Onboard +3V3 1A LDO powers the Controller and I/O Power