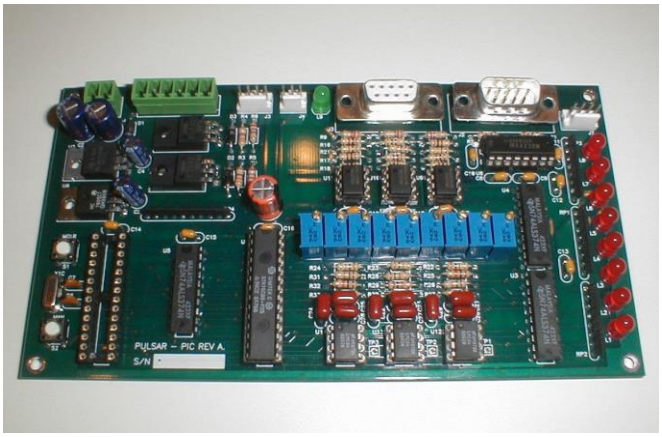
Microtex Electronics

Pulsar-PIC Microcontroller Unit



- **Industrial Temperature Grade *-40º* to *+85 º C***
- **Universal board supports the Microchip PIC CPU**
- **Non-Volatile Memory, Auto-Save Function. Memory is brown-out proof. Settings and User data will NOT be lost during power failure or brownout event.**
- **Self-regulated, Impervious to power fluctuations.**
- **Analog Inputs and Digital I/O. Three Analog channels are configured for full signal conditioning. Two are general purpose 0-5V analog input channels.**
- **Reset switch and user definable Pushbutton**
- **Serial Interface for Microcontroller to communications interface.**
- **8 Individually addressable LED indicators.**
- **Manual CPU readable analog potentiometer input.**
- **Optional Amplifier, relay, and wireless modules**
- **Designed for PIC-Basic and MPLAB for fast development**

CPU's Supported:

Microchip - PIC16C7X, PIC16C77X, PIC16C87X, Etc..

Memory:

Simtek 12C68, 32k x 8 Non-volatile memory. Memory auto-saves RAM contents to EEPROM upon power failure or software save. Used for both boot ROM and NV storage

I/O Capabilities:

Digital I/O – The Pulsar-PIC has 3 bits of user-configurable I/O. These can be set to input or output, or both. 20mA Drive.
Analog I/O – The Pulsar-PIC has 2 channels of Analog Input (0 to +5v), and three channels of signal-conditioned Analog inputs. These are geared for Direct Sensor Inputs.
Port I/O – All port I/O are useable via separate connector
Power I/O – The Pulsar-PIC has two channels of PWM capable 15Amp MOSFET driven connections.
Serial – The Pulsar-PIC has a full Hardware UART
LED's – The Pulsar-PIC has 8 general purpose LED's

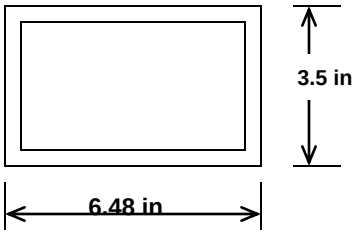
ETC:

POTADJ – The Pulsar-PIC has a manual adjust Potentiometer control.
Regulator – The Pulsar-PIC has on-board regulation. In addition to being non-volatile, it is also filters unwanted power fluctuations.

Expansion:

PUL-AMP – Signal conditioning board for Low level sensor inputs
PUL-RLY – 4-Channel relay bank, 5A contacts
PUL-900 – 900 Mhz Wireless Link
PUL-2400 – 2.4Ghz Long-range Wireless Link
PUL-CDPD –CDPD Wireless IP Radio Link

Physical:



Flexible • Rugged Environments • Proven Reliability

For More Information:

Microtex Electronics, Inc.
3400 N. Central Expy., Suite 110-256
Richardson, TX, 75080 U.S.A.
Tel: (972) 479-1011
Fax: (972) 372-3301
www.microtexelectronics.com

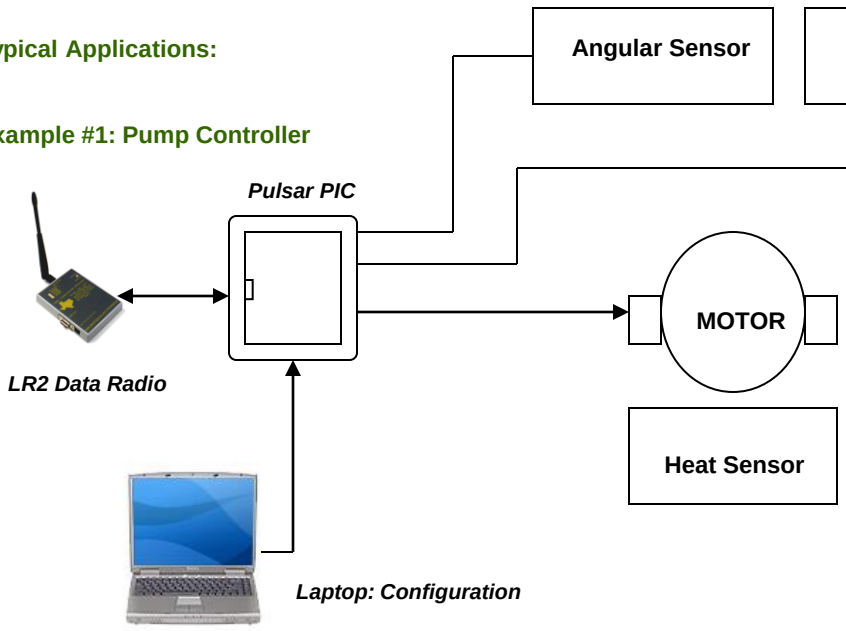
Proudly Made in the USA

Microtex Electronics

Pulsar-PIC Microcontroller Unit

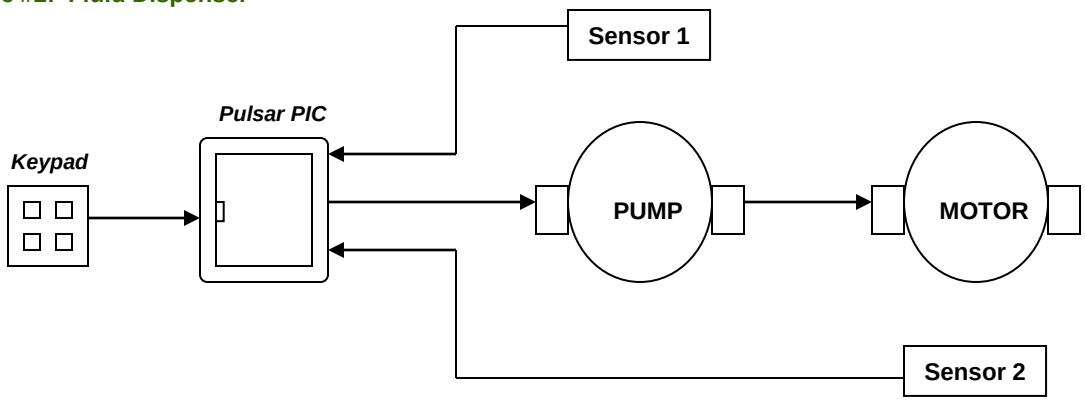
Typical Applications:

Example #1: Pump Controller



Typical Applications:

Example #2: Fluid Dispenser



For More Information:

Microtex Electronics, Inc.
3400 N. Central Expy., Suite 110-256
Richardson, TX, 75080 U.S.A.
Tel: (972) 479-1011
Fax: (972) 372-3301
www.microtexelectronics.com

Proudly Made in the USA