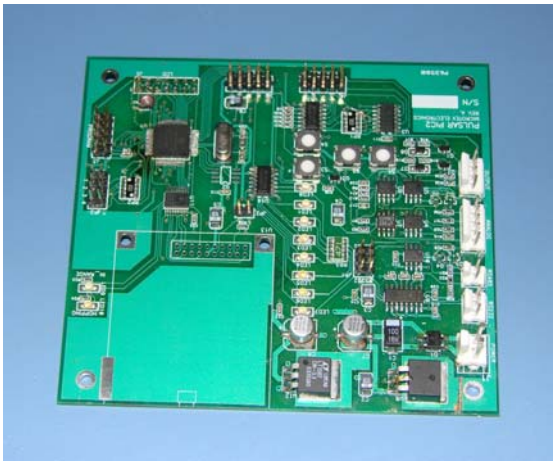
Microtex Electronics

Pulsar-PIC2 Wireless Microcontroller Unit



CPU's Supported:
Microchip - PIC18F6622 series only

Memory:

Ramtron 256K Non-volatile memory. Memory auto-saves RAM contents to EEPROM upon power failure or software save. Used for NV storage of readings.

I/O Capabilities:

Digital I/O – The Pulsar-PIC2 has 16 bits of user-configurable I/O. These can be set to input or output, or both. 24mA Drive.
Analog I/O – The Pulsar-PIC2 has 5 channels of Analog Input (0 to +5v), and three channels of signal-conditioned Analog inputs. These are geared for Direct Sensor Inputs. It also has one output DAC (0 to +5V)
Port I/O – All port I/O are useable via separate connector
Power I/O – The Pulsar-PIC has four channels of PWM capable 1Amp MOSFET driven connections.
Serial – The Pulsar-PIC has two full Hardware UARTs
Display – The Pulsar-PIC has 8 general purpose LED's and universal LCD character display connector.

ETC:

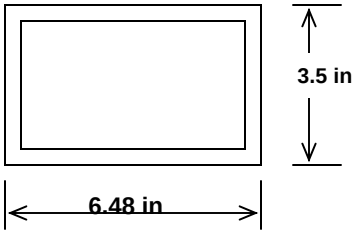
900Mhz – The Pulsar-PIC has a built-in 900Mhz broadband networkable wireless link, capable of 10 mile range.
Regulator – The Pulsar-PIC has on-board regulation. In addition to being non-volatile, it is also filters unwanted power fluctuations.

- **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. Five are general purpose 0-5V analog input channels. One output DAC.**
- **Reset switch and user definable Pushbutton**
- **Serial Interface for Microcontroller to communications interface. One Spare RS232 or RS485 connection**
- **8 Individually addressable LED indicators.**
- **Manual CPU readable analog potentiometer input.**
- **Optional Control and Relay modules**
- **Designed for modern compilers for fast development**

Expansion:

PUL-PNL - Front panel with Display/Pushbuttons
PUL-RLY – 8-Channel relay bank, 7A contacts
PUL-SAT1 – Satellite Modem, Delayed Time
PUL-SAT2 – Satellite Modem, Real-time
PUL-CDPD –CDPD Wireless IP Radio Link

Physical:



Flexible • Rugged Environments • Proven Reliability

For More Information:

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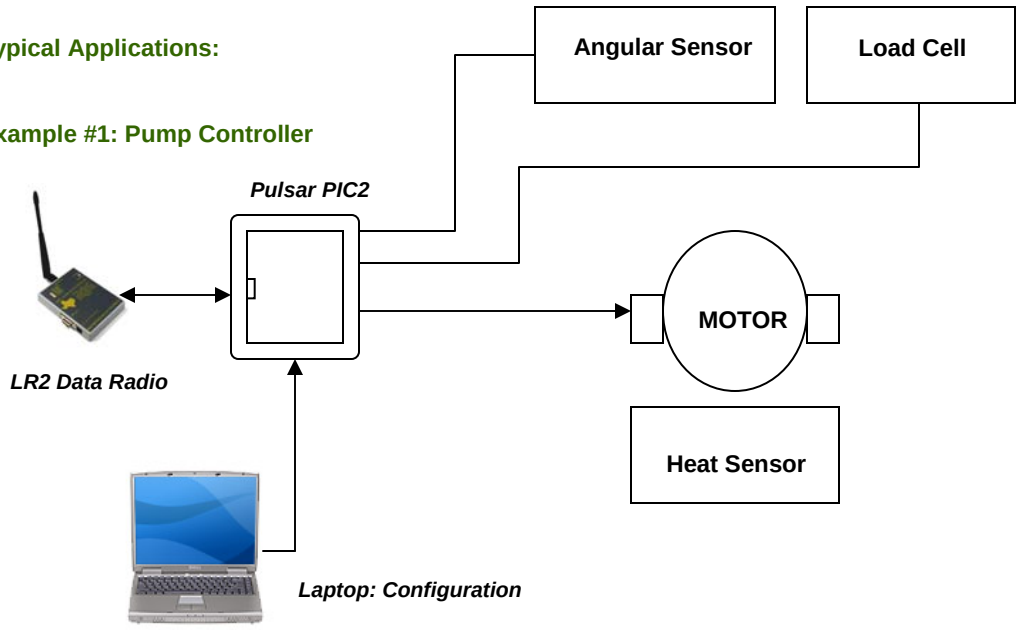
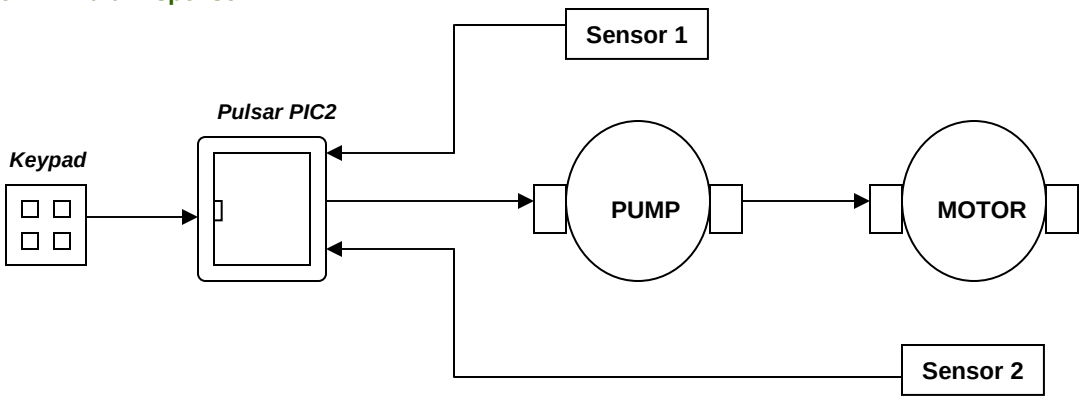
Typical Applications:

Example #1: Pump Controller



Typical Applications:

Example #2: Fluid Dispenser



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