



# Microtex Electronics

## Pulsar II Microcontroller Unit



- Industrial Temperature Grade  $-40^{\circ}$  to  $+85^{\circ}$  C
- Universal board supports many CPU's, including Dallas Semiconductor High-Speed Versions
- Non-Volatile Memory, Auto-Save Function
- Self-regulated, Impervious to power problems
- Analog I/O and Digital I/O
- Serial Interface and Optional LCD Screen
- Expansion Slots for Adding Peripherals
- Optional keyboard, relay, and wireless modules
- Designed for Bascom-8051 for fast development

### CPU's Supported:

<b>Dallas</b>	- DS5000, DS8XC310, DS8XC320, DS8XC520, DS8XC530, DS80C323
<b>Atmel</b>	- AT89C51, AT89C52, AT89S8252
<b>Philips</b>	- 8XC550, 8XC31, 8XC51, 8XC54, 8XC58
<b>SST</b>	- SST89F5X Flashflex 51
<b>ST Micro</b>	- ST63155, ST63156
<b>Intel</b>	- 8XC31, 8XC51, 8XC251

### Memory:

Simtek 15C88, 64k 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 IIE has 8 bits of user-configurable I/O. These can be set to input or output, or both. 20ma Drive.

**Analog I/O** – The pulsar IIE has 4 channels of Analog output (0 to +5v) and 8 channels of Analog Input (0 to +5v)

**Port I/O** – All port I/O are useable via separate connector

**Serial** – The Pulsar IIE has a full Hardware UART

**LED's** – The Pulsar IIE has 4 general purpose LED's

**Expansion Slots** – 4 general purpose memory mapped I/O slots, LCD is jumper selectable

**LCD** – Board supports 4x20 LCD panel or 4x16 LCD Panel with LED backlight

### Expansion:

**PUL-AMP** – Signal conditioning board for Low level sensor inputs

**PUL-KBD** – Optional 4x5 Keyboard input module

**PUL-RLY** – 4-Channel relay bank, 5A contacts

**PUL-LOG** – FIFO data logger module

**PUL-LCD1** – 4x20 LCD Panel/backlighted

**PUL-LCD2** – 4x20 LCD Panel, daylight Silver

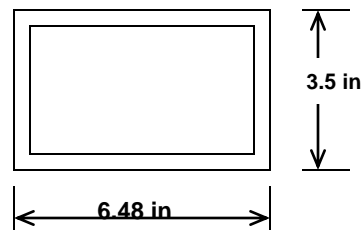
**PUL-LCD3** – 4x16 LCD Panel/backlighted

**PUL-900** – 900 Mhz Wireless Link

**PUL-2400** – 2.4Ghz Long-range Wireless Link

**PUL-BT**– Bluetooth Wireless Radio Link

### Physical:



**Flexible • Rugged Environments • Proven Reliability**

### For More Information:

Microtex Electronics, Inc.  
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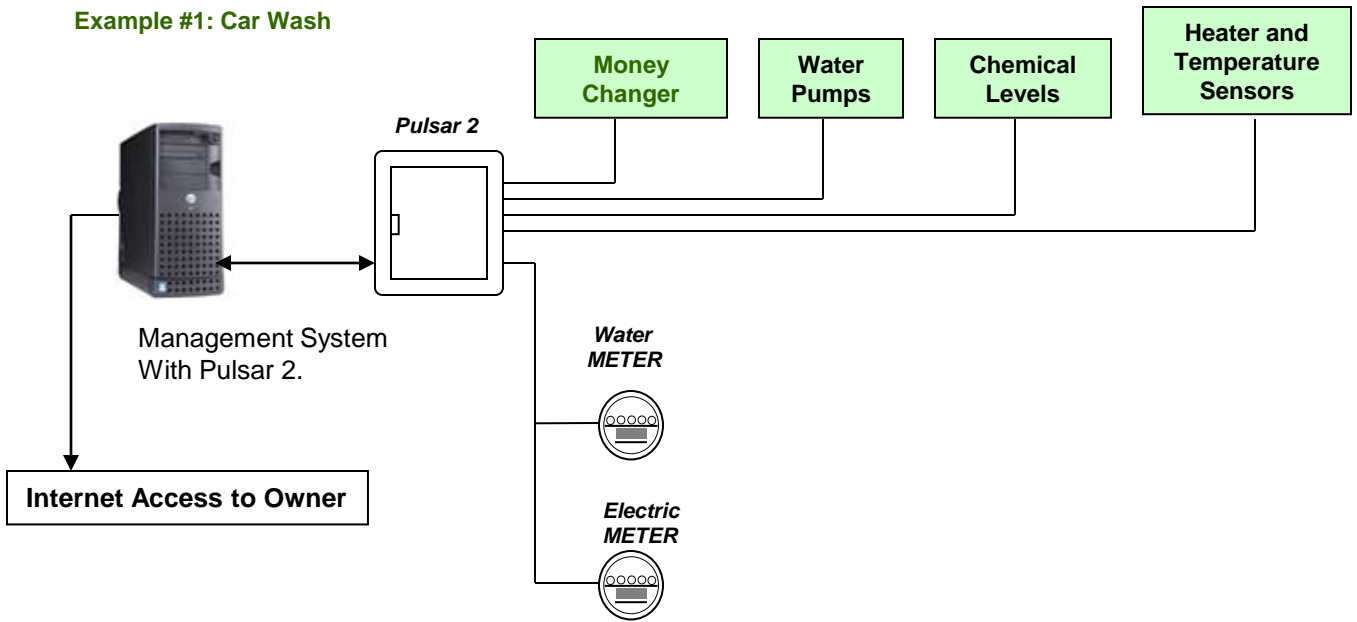


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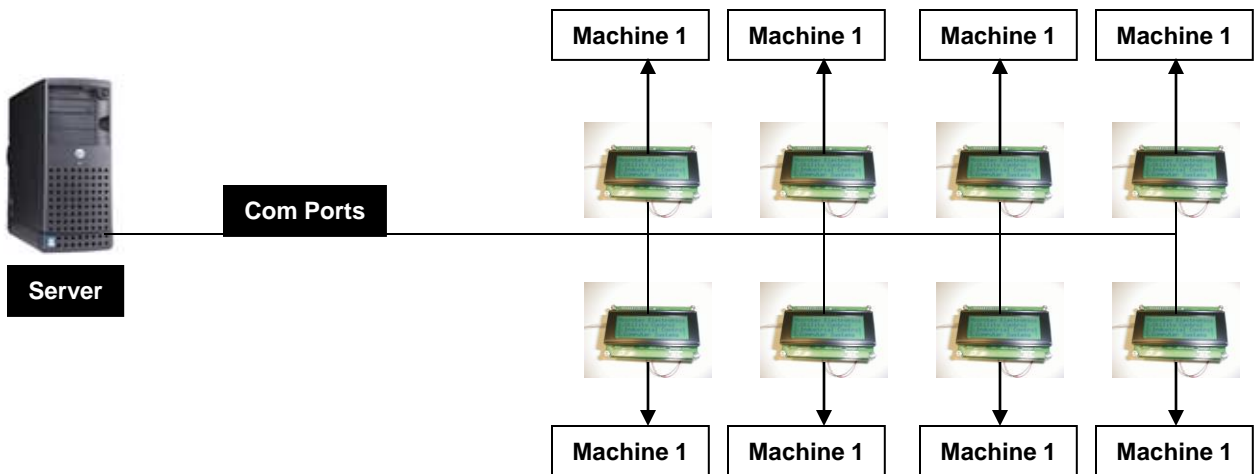
## Pulsar 2 Microcontroller Unit

### Typical Applications:

#### Example #1: Car Wash



#### Example #2: Computerized manufacturing



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