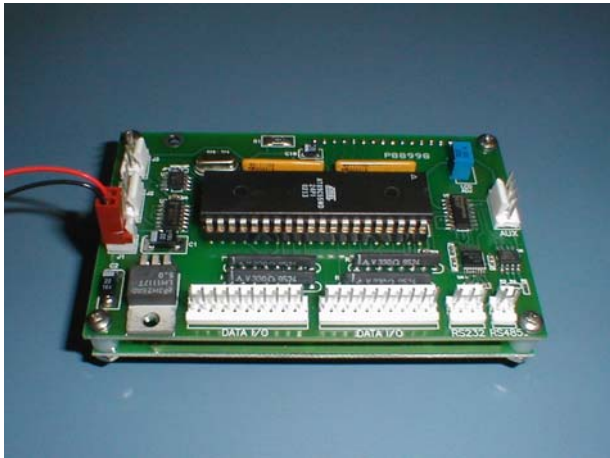




Microtex Electronics

Pulsar DS Microcontroller Unit



CPU's Supported:

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

Memory:

Ramtron, 64k x 8 Non-volatile memory. Memory is fast-write FRAM. Used for both temporary storage and NV EEPROM storage

I/O Capabilities:

Digital I/O – The Pulsar DS has 16 bits of user-configurable I/O. These can be set to input or output, or both. 20ma Drive.

GP I/O – The Pulsar DS two general purpose I/O pins

Port I/O – All port I/O are softened to prevent hardware damage and overloads.

Counters – The Pulsar DS has two counter inputs

Serial – The Pulsar DS has a full Hardware UART, switchable RS232 and RS485 channels

Expansion – The Pulsar DS has an I2C bus for adding expansion modules, addressable from the controller.

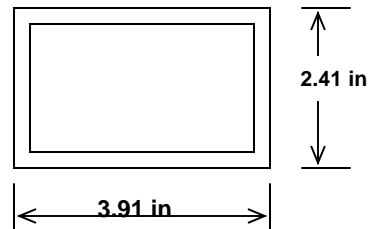
LCD – Board supports a high-contrast 4x20 LCD panel with LED backlight

- **Industrial Temperature Grade -40° to +85 ° C**
- **Universal board supports many CPU's, including Dallas Semiconductor High-Speed Versions**
- **Non-Volatile FRAM Memory**
- **Self-regulated, Impervious to power problems**
- **16 configurable Digital I/O**
- **Switchable Serial Interface RS232 and RS485**
- **20 x 4 Backlight LCD Screen**
- **I2C Expansion for Adding Peripherals**
- **Optional keyboard, relay, and wireless modules**
- **Designed for Bascom-8051 for fast development**

Expansion:

- PUL-AMP** – Signal conditioning board for Low level sensor inputs
- PUL-KBD** – Optional 4x5 Keyboard input module
- PUL-RLY4** – 4-Channel relay bank, 8A contacts
- PUL-RLY8** – 8-Channel relay bank, 8A contacts
- PUL-LCD1** – 4x20 LCD Panel/backlighted
- PUL-LCD2** – 4x20 LCD Panel, daylight Silver
- LR2** – 900 Mhz Wireless Link, 1 Watt, Long Range
- PUL-I28** – I2C I/O expansion module, 8 channel
- PUL-I216** – I2C I/O expansion module, 16 channel
- PUL-I232** – I2C I/O expansion module, 32 channel
- PUL-DC** – DC power pack w/connection

Physical:



Flexible • Rugged Environments • Proven Reliability

For More Information:

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 3400 North Central Expressway, Ste 256
 Richardson, TX, 75080 U.S.A.
 Tel: (972) 479-1011
 Fax: (972) 479-1015
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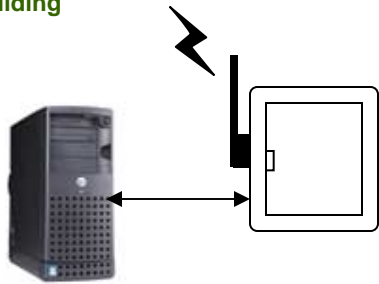


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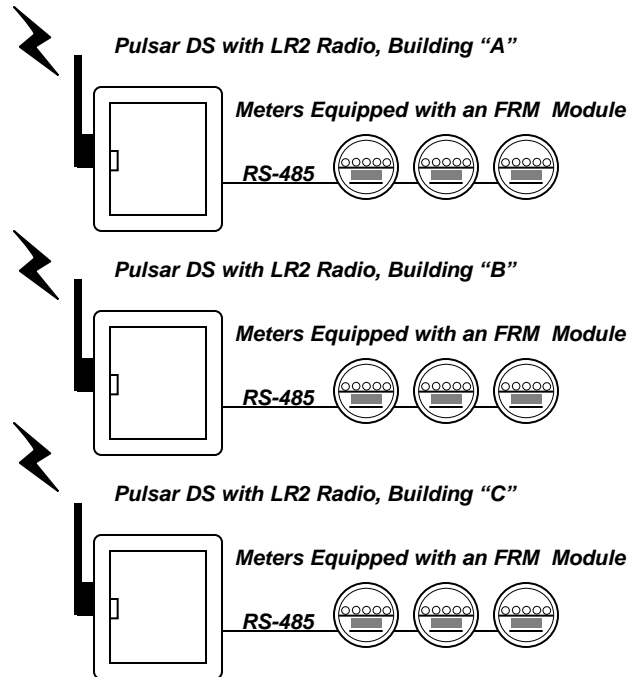
Pulsar DS Microcontroller Unit

Typical Applications:

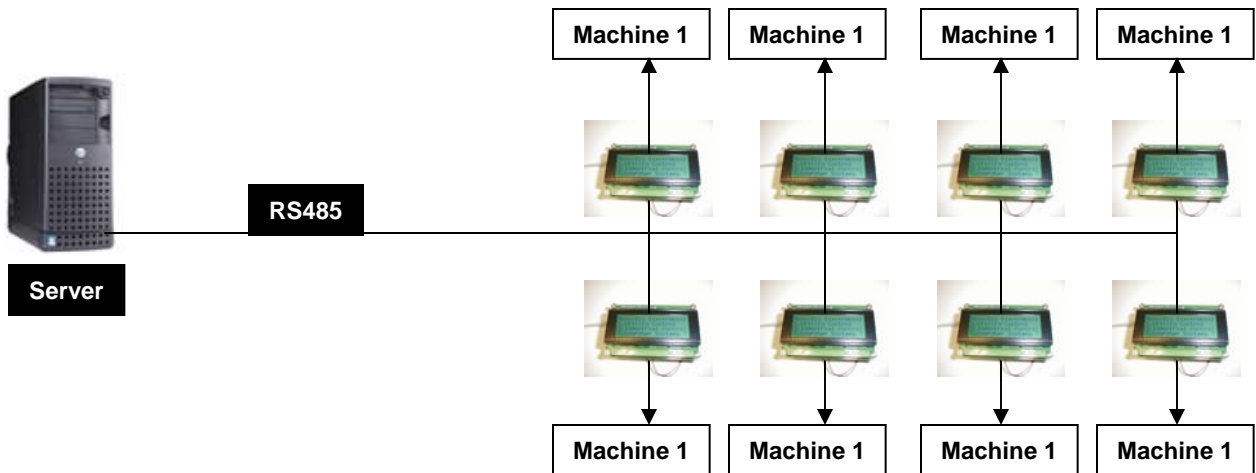
Example #1: Data Collection: AMR Apartment Building



*Pulsar DS with LR2 Radio, Data Collection Point
Or
Mobile Platform Collection*



Example #2: Computerized manufacturing



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