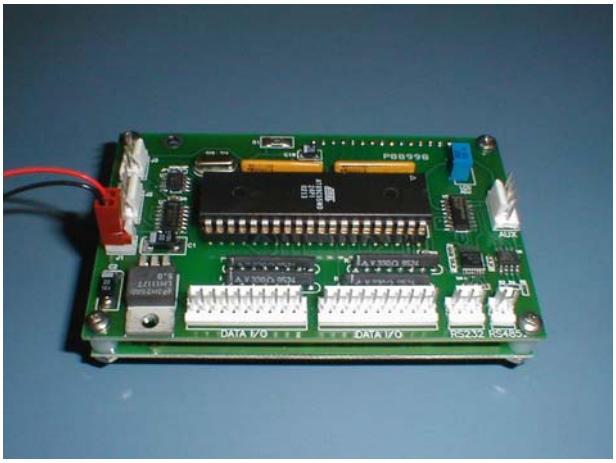
Microtex Electronics

Pulsar DS Microcontroller Unit



- **Industrial Temperature Grade *-40º* to *+85 º 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**

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

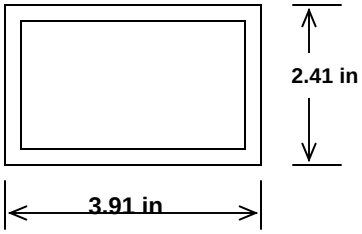
I/O Capabilities:

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

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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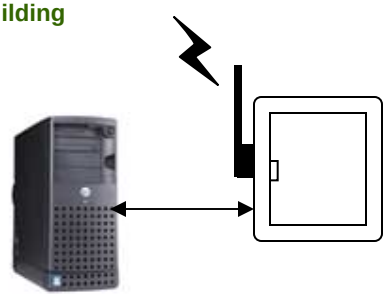
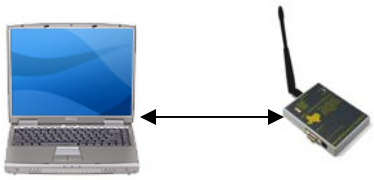
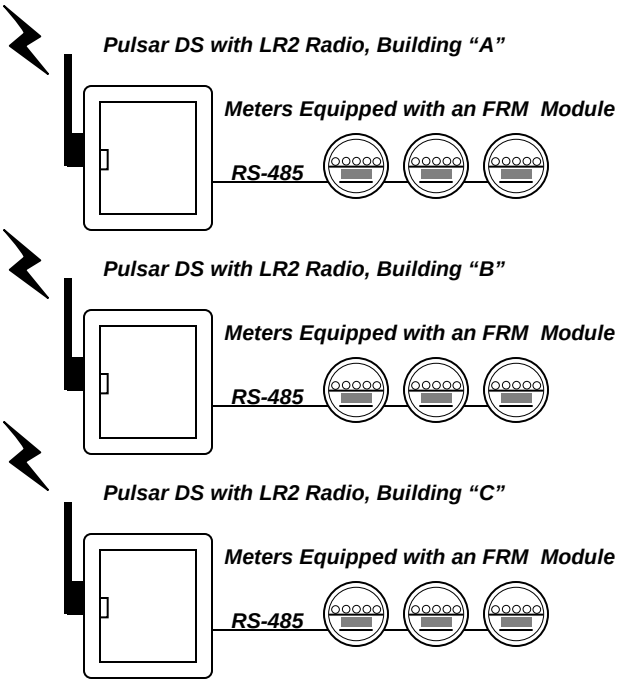
Typical Applications:

Example #1: Data Collection: AMR Apartment Building

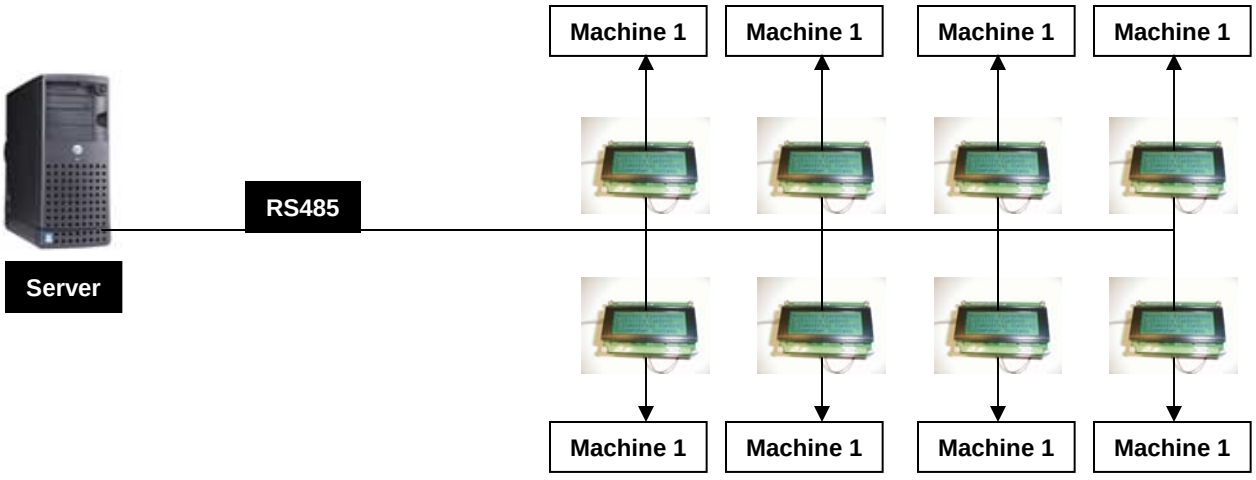


Pulsar DS with LR2 Radio, Data Collection Point
Or
Mobile Platform Collection





Example #2: Computerized manufacturing



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