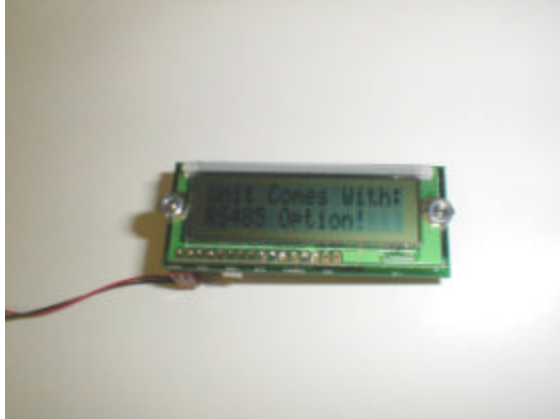




Microtex Electronics

Pulsar AT Microcontroller Unit



- Industrial Temperature Grade -40° to +85 °C
- Atmel 89C4051 Processor
- Non-Volatile 64KB FRAM Memory
- Self-regulated, Impervious to power problems
- 8 configurable Digital I/O
- Serial Interface RS232 or RS485
- 16 x 2 Line LCD Screen
- I2C Expansion for Adding Peripherals
- Optional modules
- Designed for Bascom-8051 for fast development
- Great for mini-controller applications

CPU's Supported:

Atmel - AT89C4051, AT89C2051

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 AT has 8 bits of user-configurable I/O. These can be set to input or output, or both. 20ma Drive.

GP I/O – The Pulsar AT two general purpose I/O pins, also useable for pushbutton switch inputs.

Port I/O – All port I/O are input/output configurable.

Counters – The Pulsar AT has two dedicated counter inputs

Serial – The Pulsar AT has a full Hardware UART, jumperable RS232 and RS485 channels

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

LCD – Board supports a sunlight readable 2x16 LCD panel

Expansion:

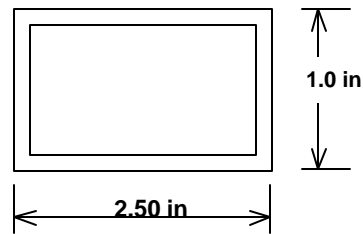
LR2 – 900 Mhz Wireless Link, 1 Watt, Long Range

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

Physical:



Flexible • Rugged Environments • Proven Reliability

For More Information:

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

Proudly Made in the USA



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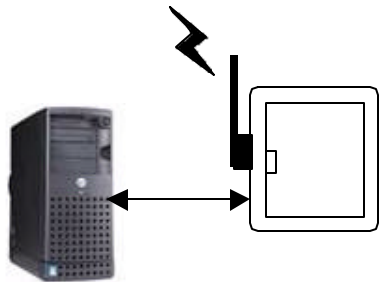


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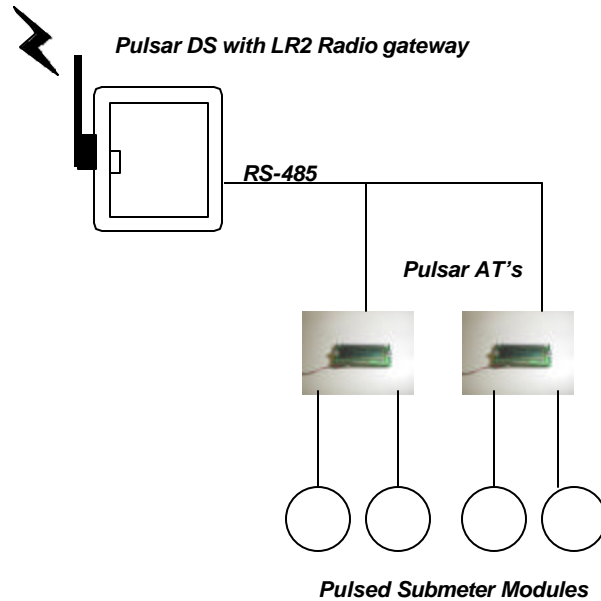
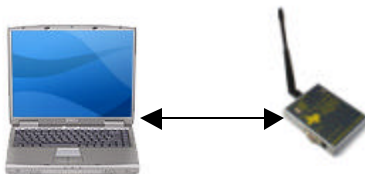
Pulsar AT Microcontroller Unit

Typical Applications:

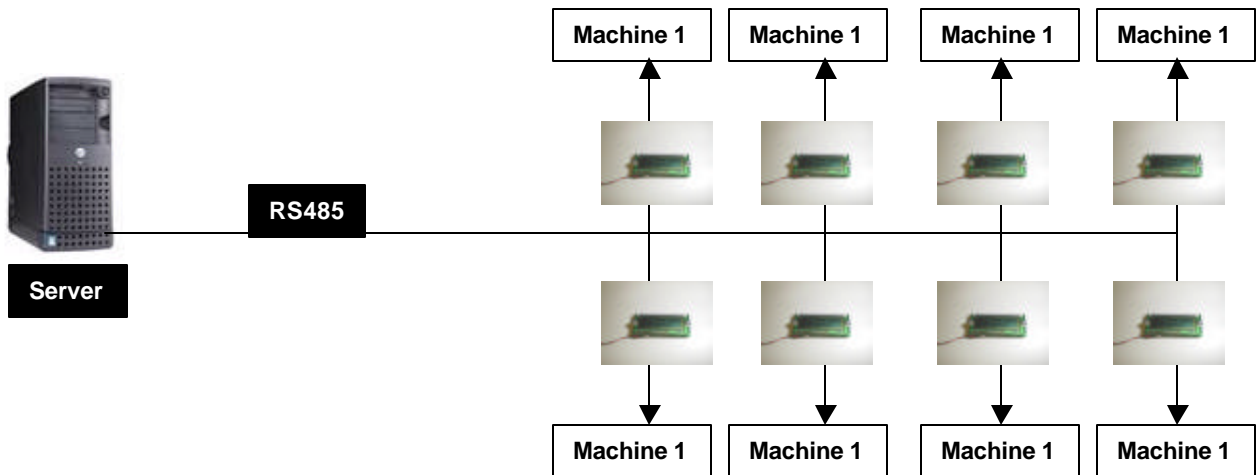
Example #1: Pulse Module Submetering



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



Example #2: Computerized Control / Monitoring



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