Microtex Electronics

Pulsar AT Microcontroller Unit

- ➤ Industrial Temperature Grade *-40º to +85 ºC*
- ➤ 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.
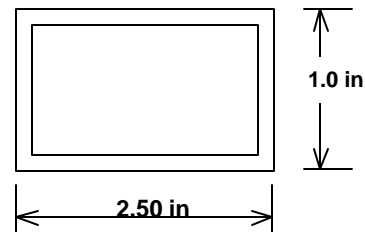**LCD** – Board supports a sunlight readable 2x16 LCD panel

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:

1.0 in

2.50 in

Flexible • Rugged Environments • Proven Reliability

Proudly Made in the USA

Typical Applications:

Example #1: Pulse Module Submetering
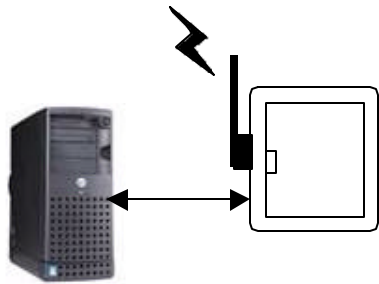
Pulsar DS with LR2 Radio, Data Collection Point
Or
Mobile Platform Collection

Pulsar DS with LR2 Radio gateway

RS-485

Pulsar AT's

Pulsed Submeter Modules
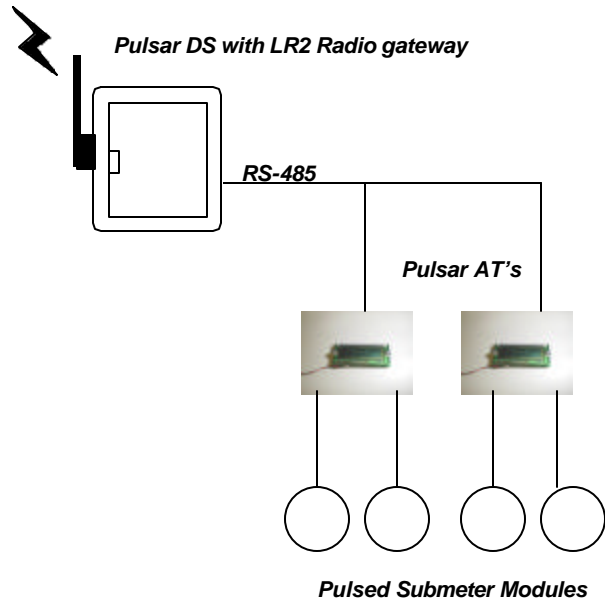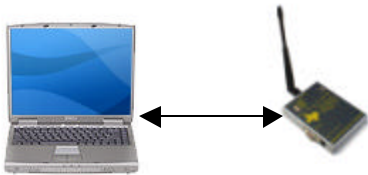
Example #2: Computerized Control / Monitoring

| Machine 1 | Machine 1 | Machine 1 | Machine 1 |

RS485

Server

| Machine 1 | Machine 1 | Machine 1 | Machine 1 |
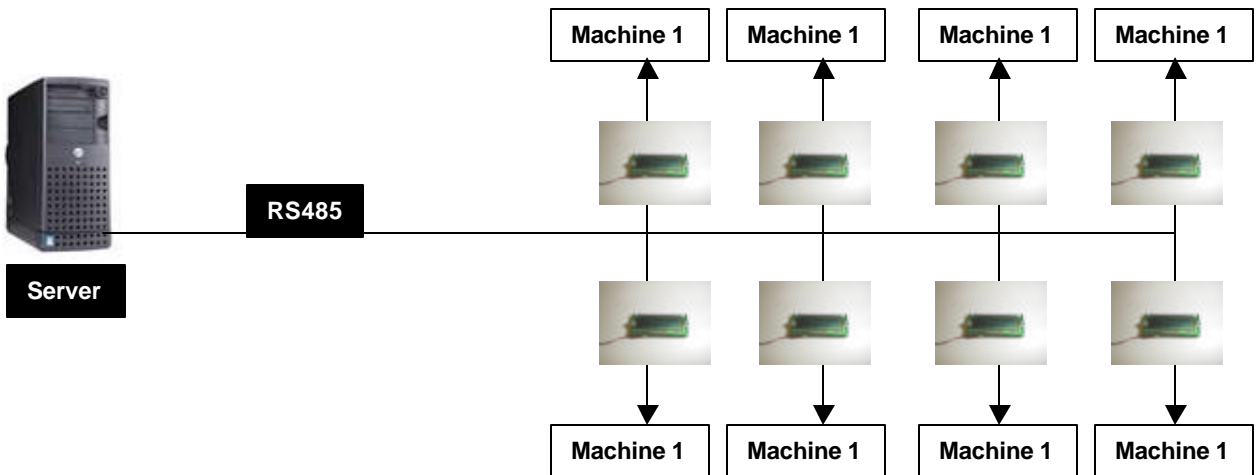
<u>**For More Information**</u>:

Microtex Electronics, Inc.
2929 N. Central Expy. Suite 250
Richardson, TX, 75080 U.S.A.
Tel: (972) 479-1011
Fax: (972) 479-1015
www.microtexelectronics.com

Proudly Made in the USA