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.

Expansions:

- **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:

- Industrial Temperature Grade -40º to +85 º 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

For More Information:

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Typical Applications:

Example #1: Pulse Module Submetering

Example #2: Computerized Control / Monitoring