



Micro-E

Ethernet to Serial, Temperature and Digital I/O

General Description

The Micro-E is an advanced Ethernet peripheral connection device. The Micro-E can be utilized in a variety of applications and has been designed to be flexible in deployment. The Micro-E unit has a 10Mbps Ethernet port (twisted pair), a serial port (jumper selectable RS232 & RS422), two I2C ports for multi-drop temperature measurement, eight inputs and eight outputs. Syslog messaging is also supported and when used with a low cost third party syslog program, emails, logging etc are available. The Micro-E has an IP stack to enable TCP/IP and UDP applications to access the unit directly. New firmware can be uploaded via the LAN connection using the configuration software supplied.

Features

Ethernet –

- 1 x 10Base-T, 10Mbps Ethernet port with twisted pair (RJ45) interface.
- Activity and link LED's.

Serial –

- 1 x DB9 Male (DTE) connector.
- 3 wire or full handshaking on serial port.
- TX and RX LED's on the serial port.
- RS-232 or RS-422 (selectable via internal jumpers).
- Selectable 120 ohm termination on RS-422 RX (internal jumper).
- Serial port speeds range from 1200bps – 115,200bps.

I2C Ports (Sensors) –

- 2 x I2C (RJ12) ports.
- Up to 4 external temperature sensors (Rotary switch addressable).
- Selectable temperature events including output activation and syslog messaging.

Digital I/O –

- 8 x high current outputs, can drive 150mA per output @ 30VDC.
- 8 x inputs up to 30VDC.
- Outputs are open collector and include direct relay drivers.
- All Inputs have pull-ups for easy contact connection.
- Outputs can be setup to function as remote monitored variable thermostat.

Applications –

- Remote firmware upgradable, code stored in FLASH memory.
- Terminal server, Ethernet to serial conversions (TCP/IP Server).
- TCP/IP direct to serial port.
- UDP direct to serial port.
- Serial to serial over Ethernet.
- TCP/IP utility socket port (temperature and digital I/O).
- UDP temperature and digital I/O access.
- Change output on an input change/high/low.
- Toggle output on an input change/high/low.
- Syslog events for an input change/high/low.
- 2 events for each temperature sensor.
- Change an output on over/under a set temperature.
- Send syslog on over/under a set temperature.
- Can be altered for specific needs.

Micro-E-02

The Micro-E-02 unit has the following hardware:

1 x DB9M (DTE) RS-232 serial port.

Selectable RS422 on serial port (RS-232 or RS-422, 4 wire plus a common).

1 x 10Mbps Ethernet port unshielded twisted pair (half duplex).

2 x RJ-12 100/kbps I2C (2-wire) port with +5V and ground to power remote devices (temperature sensors etc)

8 x DC inputs (max 30VDC).

8 x DC outputs open collector, direct relay drive (max 30VDC, 150mA per output).

Dimensions

Enclosure 180mmW x 90mmD x 45mmH.

Sales and Support



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