LANTRONIX®



Embedded Device Server

- Easily network-enable virtually any serial device
- Flexible, well-developed IP protocol stack
- Ethernet RJ45 (10Base-T) connector on the board
- TTL serial interface
- Two serial ports
- Accepts 5VDC regulated input power
- HTTP, Serial, Telnet and SNMP management
- Flash ROM for easy software upgrades
- Custom protocol support available



Design Ethernet Connectivity into Your Products Quickly and Economically

The Lantronix Micro is a board-level product for OEM users who want to embed proven mainstream Ethernet connectivity into their products quickly and economically.

Building Ethernet connectivity into a product is no simple task. It requires a significant investment in hardware and software integration – often in areas outside of core competencies. So why build it yourself when there is a cost-effective alternative?

Lantronix embedded device networking products provide proven, integrated hardware and software solutions for manufacturers who want to add Ethernet connectivity to their products.

Device networking starts with a Device Server[™]. These amazing products allow most any device with a serial port (TTL) to connect to Ethernet networks quickly and cost-effectively. Device Servers include all of the elements needed for device networking a processor, real-time operating system (RTOS), a robust TCP/IP stack, a web server and a network connection. All the connected product needs is a header, providing connections to power and a TTL serial port.

The Micro brings over a decade of networking experience, rock-solid IP firmware and extensive applications support to industrial and commercial environments.

Measuring only 1.6 in x 1.9 in, the Micro can easily fit into almost any size serial device that would benefit from network connectivity. A TTL connector provides the serial interface, and an RJ45 (10BASE-T) is available for Ethernet access. The Micro includes the same IP protocol stack found on the other Lantronix products.

Board Layout and Pinouts

Features

Protocols

ARP, UDP, TCP, Telnet, ICMP, SNMP, DHCP, TFTP and HTTP

Networking Interface RJ45 (10Base-T) Ethernet

Serial Interface TTL level (Asynchronous)

Data Rates

300 bps to 115.2 Kbps

Serial Line Formats

Characters: 7 or 8 data bits Stop bits: 1 or 2 Parity: odd, even, none

Modem Controls DTR, RTS, CTS, DCD

Flow Control XON/XOFF (Software) CTS/RTS (Hardware)

Management

HTTP SNMP Serial login **Telnet** login

System Software

Flash ROM standard: downloadable from a TCP/IP host (TFTP) or over serial port

Diagnostic LEDs

Transmit Data Receive Data Good Link

Compatibility Ethernet: Version 2.0/IEEE 802.3

Power Requirements 5Vpc +/-5% at ~ 200mA

Memory

Flash: 512K RAM: 128K NVRAM: 2K Bytes

Environmental

Standard Temperature 0° to 70° C (32° to 158° F) **Storage Temperature** -40° to 85° C (-40° to 185° F)

Physical Dimensions (L x W)

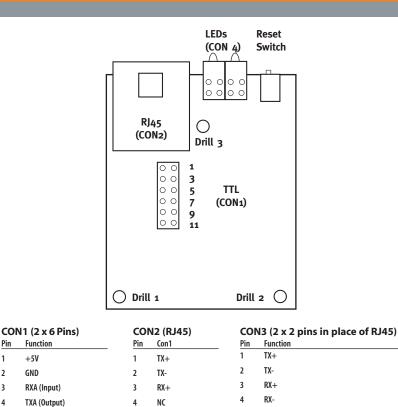
49.15 x 40 mm (1.935 x 1.575 in)

Mechanical drawing available at www.lantronix.com

Warranty

1-year limited warranty





CON4 (2 x 4 pins in place of LEDs)

Function

+5V

+5V

LED2

LED1

+5V

+5V

LED3

LED "good link"

Pin

1

2

3

4

5

6

7

8

Ordering Information

Pin

1

2

3

4

5

6

7

8

9

10

11

12

RTSA (Output)

DTRA (Output)

CTSA (Input)

DCDA (Input)

R/V/A (Output)

RESET to be pulled low

RXB (Input – optional)

TXB (Output – optional)

Contact your local Lantronix representative or Lantronix directly: United States sales@lantronix.com or call OEM sales support at 800-526-8764. Asia Pacific Region AsiaPacific_sales@lantronix.com Europe eu_sales@lantronix.com Japan japan_sales@lantronix.com Latin America & Caribbean la_sales@lantronix.com Part Number and Description Micro with no RI45 and LEDS RoHS CO E1 00440

5 NC

6

7

8 NC

RX-

NC

CO-E1-00AAR	Micro with no RJ45 and LEDS, RoHS
CO-E1-11AAR	Micro Device Server, Ethernet, RoHS
CO-E1-IAP-R	Micro Industrial Protocol, RoHS
CO-E1M-00AAR	Micro with no RJ45 and LEDS, with MODBUS Firmware, RoHS
CO-E1M-11AAR	Micro with MODBUS Firmware, RoHS
CO-E2-00AB-R	Micro Generic, 2 Serial Port support with no RJ45 and LEDS, RoHS
CO-E2-113AAR	Micro, 2 Serial Port support and TTL Header on back of board, RoHS
CO-E2-11AAR	Micro with 2 Serial Port support, RoHS
CO-E2-12AA-R	Micro with no LEDS, but instead, Header Pins on the TTL side, RoHS
CO-E2-21ABR	Micro, Pin Header on TTL side instead of RJ45, RoHS
CO-E2-22AAR	Micro with 2 TTL Channels, RoHS
CO-E2-22AB-R	Micro with 2TTL Channel, RoHS
CO-E2-IAPR	Micro 2 Channel IAP, RoHS

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Lantronix:

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