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**

RoHS WEEE COMPLIANT

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.

Micro

Embedded Device Server™

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
5VDC +/-5% at ~ 200mA

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

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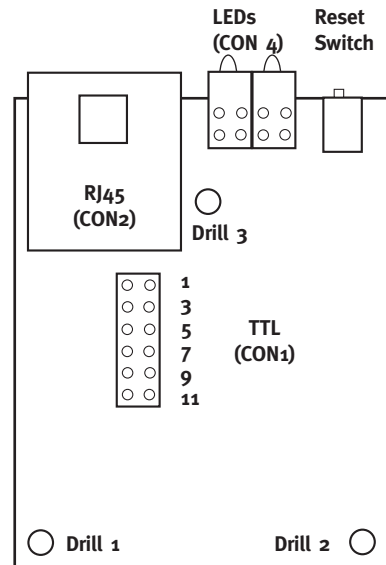-40° to 85° C (-40° to 185° F)

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

CON1 (2 x 6 Pins)

Pin	Function
1	+5V
2	GND
3	RXA (Input)
4	TXA (Output)
5	RTSA (Output)
6	DTRA (Output)
7	CTSA (Input)
8	DCDA (Input)
9	R/V/A (Output)
10	RESET to be pulled low
11	RXB (Input – optional)
12	TXB (Output – optional)

CON2 (RJ45)

Pin	Con1
1	TX+
2	TX-
3	RX+
4	NC
5	NC
6	RX-
7	NC
8	NC

CON3 (2 x 2 pins in place of RJ45)

Pin	Function
1	TX+
2	TX-
3	RX+
4	RX-

CON4 (2 x 4 pins in place of LEDs)

Pin	Function
1	+5V
2	+5V
3	LED2
4	LED1
5	+5V
6	+5V
7	LED3
8	LED "good link"

Ordering Information

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

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

LANTRONIX®

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Authorized Distributor

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