



Embedded Device Server

- ▶ Easily network-enable any product
- ▶ Flexible, well-developed IP protocol stack
- ▶ Ethernet RJ45 (10/100Base-T) connector on the board
- ▶ TTL serial interface
- ▶ Accepts 5VDC regulated input power
- ▶ HTTP, Serial, Telnet and SNMP management
- ▶ Flash ROM for easy software upgrades
- ▶ Custom protocol support available

Ethernet Connectivity in Your Products Quickly and Economically: Easily network-enable any product.

The Lantronix Micro 100 is a board-level product for OEM users who want to embed proven mainstream Ethernet connectivity in their products quickly and economically.

Building Ethernet or 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. Why build it yourself when there is an alternative?

Lantronix's embedded device networking products provide 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 100 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 100 can easily fit into almost any size serial device that would benefit from network connectivity. Serial interfacing is accomplished via a TTL connector and for Ethernet access, an RJ45 (10/100Base-T) is available.

The Micro 100 supports the same IP protocol stack found on the other Lantronix CoBox products.





Features

Protocols

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

Networking Interface

RJ45 (10/100Base-T) Ethernet

Serial Interface

TTL level (Asynchronous)

Data Rates

300 bps to 230 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

Serial Channel Status

Ethernet Link Status

Diagnostic Information

Compatibility

Ethernet: Version 2.0/IEEE 802.3

Power Requirements

5VDC +/-5% at ~ 200mA

Memory

Flash: 512K

RAM: 256K - zero wait

Environmental

Standard Temperature
0° to 70° C (32° to 158° F)

Storage Temperature
-40° to 85° C (-40° to 185° F)

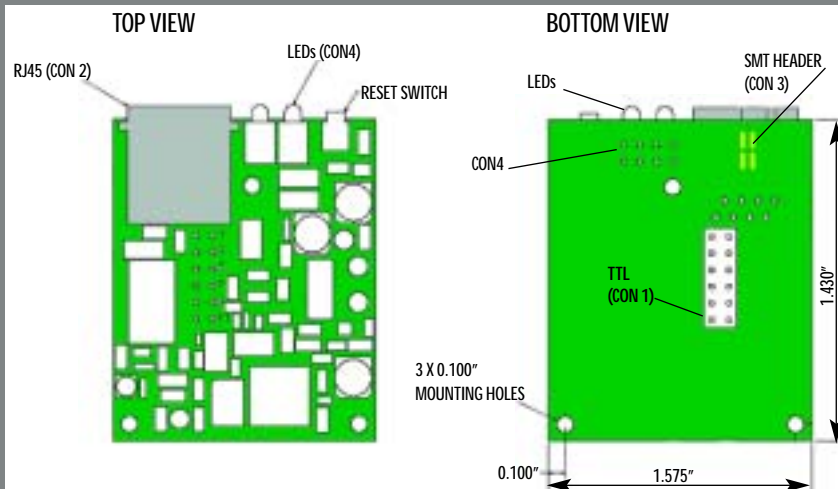
Physical Dimensions (H x W)

1.574 x 1.929 in (40.0mm x 49.0mm)

Warranty

2-year limited warranty

Board Layout and Pinouts



CON1 (2 x 6 Pins)TTL

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
11	RXB (Input)
12	TXB (Output)

CON2 (RJ45)

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

CON3 (2 x 2 SMT for RJ45)

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

CON4 (2 x 4 pins in place of LEDs)

Pin	Function
1	+3.3V
2	+3.3V
3	DIAG (Red)
4	CH1 (Green)
5	+3.3V
6	+3.3V
7	CH2 (Yellow)
8	Link (Green)

Ordering Information

Part Number	Description
MO00AA002-01	Micro 100 No RJ45 connector, no LEDs, with TTL pin header
MO11AA002-01	Micro 100 with RJ45 connector, LEDs, with TTL pin header
MO22AA002-01	Micro 100 Pin header for Ethernet, pin header for LED connection, with TTL pin header

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