



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
- ▶ Two serial ports
- ▶ 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

The Lantronix Micro 100 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 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)

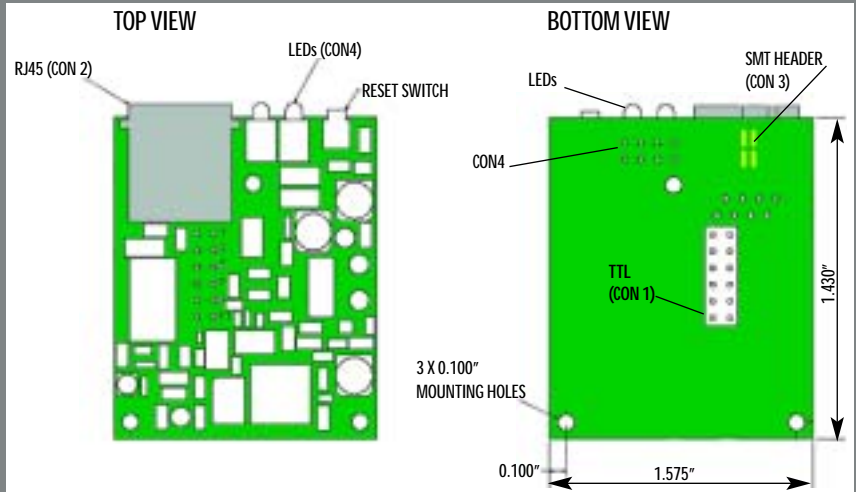
Physical Dimensions (H x W)

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 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	+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

