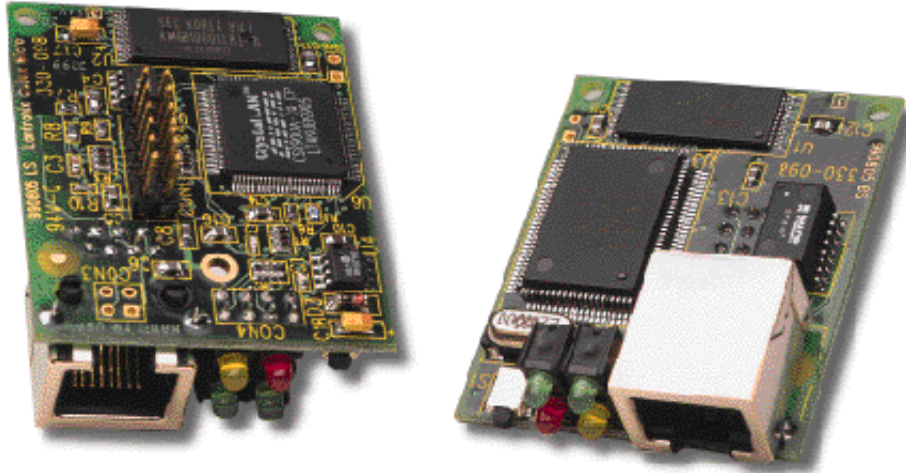# CoBox™ Micro
Universal Thin Servers

CoBox Micro Universal Thin Server

The Lantronix CoBox Micro Universal Thin Server is a board-level product for OEM users who want to embed proven mainstream Ethernet connectivity in their products quickly and economically. The CoBox 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 CoBox Micro 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 (10BASE-T) is available. The CoBox Micro supports the same IP protocol stack found on the other Lantronix CoBox products.

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

10 year anniversary

CoBox Micro Specifications

PROTOCOLS SUPPORTED
IP: ARP, UDP, TCP, DHCP, SNMP and TFTP

COMP ATIBILITY
Ethernet: Version 2.0/IEEE 802.3

NETWORK INTERFACE
RJ45 (10BASE-T)

SERIAL INTERFACE
TTL level (Asynchronous)

DA TA RATES
300bps to 115.2Kbps

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

MODEM CONTROL SIGNALS
DTR, RTS, CTS, DCD

FLOW CONTROL SIGNALS
XON/XOFF
CTS/RTS

MANAGEMENT
SNMP (read only)
Serial login
Telnet login

SYSTEM SOFTWARE
Flash ROM standard: new firmware can be downloaded from a TCP/IP host (TFTP) or over serial port

DIAGNOSTIC LEDS
Transmit Data
Receive Data
Good Link

POWER REQUIREMENTS
5VDC +/-5% at roughly 200mA

MEMOR Y
Flash: 128K
RAM: 128K
NVRAM: 512 Bytes

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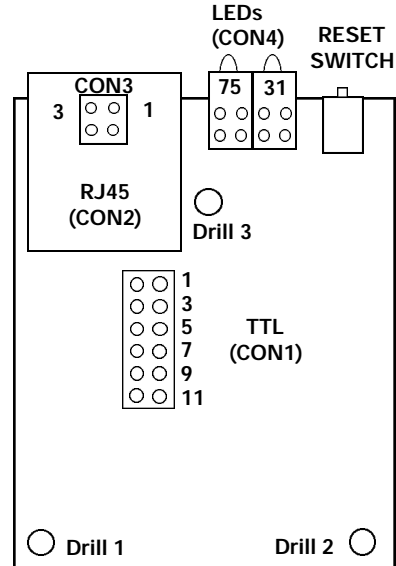Storage Temperature: -40 to 85°C (-40 to 185°F)

PHYSICAL DIMENSIONS
40.0mm x 49.0mm (1.574 x 1.929 in)
Mechanical drawing available at www.lantronix.com

ORDERING INFORMATION
Contact Lantronix OEMSales for ordering information

BOARD LAYOUTS and PINOUTS

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	Reserved (Input)
12	Reserved (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 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"

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