LANTRONIX®



Embedded Device Server

- Flexible, well-developed IP protocol stack
- TTL serial interface
- Two serial ports
- Accepts 5 VDC regulated input power
- HTTP, serial, Telnet and SNMP management
- Flash ROM for easy software upgrades
- Custom protocol support available
- 256-bit AES encryption for secure communications



Build 10/100 Base-T Ethernet Connectivity into Your Products Quickly and Economically

The Lantronix Micro125 is a board-level product for OEM users who want to embed proven mainstream Ethernet connectivity in 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 better alternative?

The Micro125 embedded device server provides an integrated solution to add proven Ethernet connectivity to an existing design quickly and economically, and with a high level of flexibility.

Device networking starts with a Device Server.[™] These amazing products enable most any device with serial capability (TTL) to become a fully functional member of an Ethernet network. Device Servers include all of the elements needed to network-enable your products – a processor, real-time operating system (RTOS), a robust TCP/IP stack, a web server, and a network connection. All the connected product additionally needs is a header, providing connections to a power source and to a TTL serial port.

The Micro125 brings over a decade of device networking experience, rock-solid IP firmware, extensive applications support and advanced encryption standards to industrial and commercial environments.

Measuring only 49 x 40 mm the Micro125 can easily fit into almost any size serial device that would benefit from network connectivity. It includes a serial interface TTL connector and 10/100 Base-T Ethernet RJ45 jack. The Micro125 includes the same IP protocol stack found on the other Lantronix embedded products.

RoHS-compliant, the Micro125 meets Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Board Layout and Pinouts



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** Security **Optional 256-bit AES** Password protection

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 5 VDC +/-5% at ~ 200 mA

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 (W x H) 49 x 40 mm (1.929 x 1.575 in)





CON1 (2 x 6 Pins)TTL		CON2 (RJ45)		CON3 (2 x 2 SMT in place of RJ45)		
Pin	Function	Pin	Con1	Pin	Function	
1	+5V	1	TX+	1	TX+	
2	GND	2	TX-	2	TX-	
3	RXA (Input)	3	RX+	3	RX+	
4	TXA (Output)	4	NC	4	RX-	
5	RTSA (Output)	5	NC			
6	DTRA (Output)	6	RX-			
7	CTSA (Input)	7	NC			
8	DCDA (Input)	8	NC			
9	R/V/A (Output)					
10	RESET					
11	RXB (Input)					
12	TXB (Output)					
CON4 (2 x 4 pins in place of LEDs)						

CO x 4 pins in place of LEDS) Pin Function

1 +3.3V

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

Warranty

2-year limited warranty

Ordering Information Description

Part Number	Description
M000AA003-01R	Micro125, No RJ45 connector, No LEDS, with TTL pin header, RoHS
M000AA0E3-01R	AES Encrypted Micro125, No RJ45 connector, No LEDS, with TTL pin header, RoHS
M011AA003-01R	Micro125 with RJ45 connector, LEDS, with TTL pin header, RoHS
M011AA0E3-01R	AES Encrypted Micro125 with RJ45 connector, LEDS, with TTL pin header, RoHS
M022AA003-01R	Micro125, Pin header for Ethernet, Pin header for LED connection, with TTL pin header, RoHS
M022AA0E3-01R	AES Encrypted Micro125, Pin header for Ethernet, Pin header for LED connection,
	with TTL pin header, RoHS

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С нами вы становитесь еще успешнее!

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