

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

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

RoHS WEEE COMPLIANT

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.



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

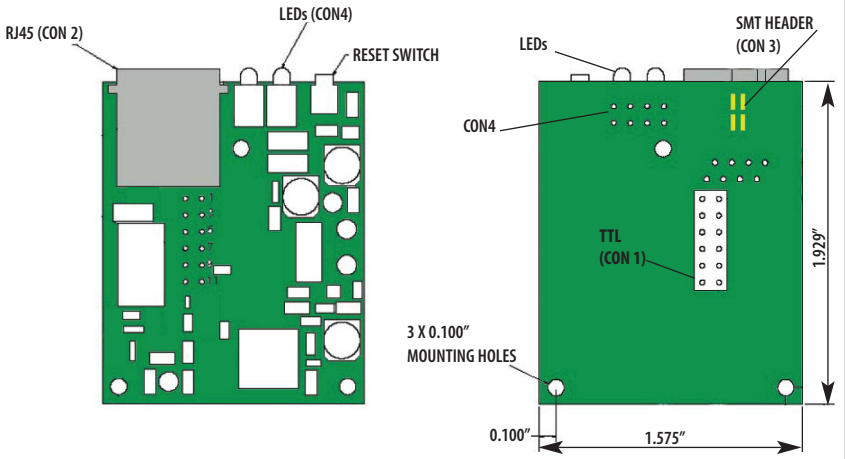
Memory
Flash: 512K
RAM: 256K - zero wait

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)

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	$\overline{\text{RESET}}$
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)

Warranty
2-year limited warranty

Ordering Information

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

LANTRONIX®

167 Technology Drive | Irvine | CA 92618 | USA | Tel: 949.453.3990 | Fax: 949.450.7249 | **www.lantronix.com**

©2010, Lantronix, Inc. Lantronix is a registered trademark and WiMicro and Device Server are trademarks of Lantronix, Inc. All other trademarks are the property of their respective owners. Specifications subject to change without notice. All rights reserved. 910-417 11/10 DGS2500

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP