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Understanding [Embedded - Microcontroller, Microprocessor, FPGA Modules](#)

Embedded - Microcontroller, Microprocessor, and FPGA Modules are fundamental components in modern electronic systems, offering a wide range of functionalities and capabilities. Microcontrollers are compact integrated circuits designed to execute specific control tasks within an embedded system. They typically include a processor, memory, and input/output peripherals on a single chip. Microprocessors, on the other hand, are more powerful processing units used in complex computing tasks, often requiring external memory and peripherals. FPGAs (Field Programmable Gate Arrays) are highly flexible devices that can be configured by the user to perform specific logic functions, making them invaluable in applications requiring customization and adaptability.

Applications of [Embedded - Microcontroller,](#)

Details

Product Status	Not For New Designs
Module/Board Type	MPU Core
Core Processor	IPv6
Co-Processor	XPort® Pro Lx6
Speed	-
Flash Size	16MB
RAM Size	16MB
Connector Type	RJ45
Size / Dimension	0.63" x 1.33" (16mm x 33.9mm)
Operating Temperature	-40°C ~ 85°C
Purchase URL	https://www.e-xfl.com/product-detail/maestro-wireless/xpp1004000-02r



IPV6 READY, LINUX NETWORKING MODULE FOR M2M APPLICATION DEVELOPMENT

The XPort® Pro Lx6 is a member of Lantronix XPort Pro family of powerful and advanced embedded Linux based networking modules. Footprint compatible with the industry popular XPort®, the XPort Pro Lx6 adds IPv6 — allowing designers to leverage an off-the-shelf solution that's highly customizable for wired networking solutions.

Robust Processing Power & Flexible Linux Computing

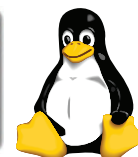
The thumb-sized XPort Pro Lx6 provides everything you need in a single embedded solution — eliminating the complexity of designing network connectivity into a product and allowing advanced applications to be quickly and easily deployed on the edge device itself.

IPv6-Ready Solution

Organizations have historically struggled with future proofing their networking equipment, especially when it comes to supporting Internet Protocol version 6 (IPv6). Until recently, IPv6 was only available in high end computers. Today it's available on the XPort Pro—one of Lantronix's flagship, award-winning products. Using Linux and the large collection of available feature libraries, the XPort Pro Lx6 offers a customizable platform for embedded developers to use and offer a highly differentiated networking solution.

Industrial-Grade Device Server

The XPort Pro Lx6 delivers a robust, industrial-grade application device server with network hardened software applications, in conjunction with critical agency certification already completed by Lantronix. The benefit for you? Reduced development time, faster time to market, and lower cost of ownership through the entire product lifecycle.



XPort Pro Lx6 Highlights:

- IPv6 Ready Certified: Conforms to core protocols
- Easy to Deploy and Use: Simple device setup, configuration and monitoring without any software development
- Robust: Device server application suite hardened by Lantronix over the last decade
- Feature Rich: Multiple session connectivity modes, remote firmware upgrades and configuration with enterprise class management interfaces
- Secure: FIPS 197 compliant 256-bit AES encryption
- Industrial-Ready: Operating environment at extended temperatures: -40° to +85° C
- Standards-based: Conforms to the latest IP networking standards ensuring interoperability and eliminating vendor lock-in
- Guaranteed: 2-year limited warranty

Features and Specifications

> High Performance 32-bit Processor

- 16MB SDRAM 16MB Flash

> Serial Interface

- Software selectable data rates from 300 to 921kbps
- Characters: 7 or 8 data bits
- Parity: Odd, Even, None
- Stop Bits: 1 or 2
- Modem Control Signals: CTS, RTS, DTR/DCD
- Flow Control: XON/XOFF (software), CTS/RTS (hardware)
- Programmable IO: 3 PIO pins (software selectable)

> Network Interface

- 10Base-T and 100Base-TX Link
- Connector: RJ45
- Internet Protocol: Dual Stack IPv4 and IPv6
- Protocols: TCP/IP, UDP/IP, ARP, ICMP, TFTP, FTP, Telnet, DHCP, BOOTP, HTTP, SMTP, AutoIP, and SYSLOG

> Security

- TCP/AES and UDP/AES

> Software

- MS Windows based DeviceInstaller™
- MS Windows based Com Port Redirector™

> Management and Control

- Internal Web Manager
- CLI (over Serial Ports or Telnet)
- XML Configuration Records via CLI or FTP
- DeviceInstaller software
- Firmware: Upgradeable via FTP, Web, and Serial Port

> Internal Web Server

- Customizable with CGI
- Web content on local file system and updatable through FTP

> Environmental

- Operating Temperature: -40° to +85° C
- Storage Temperature : -40° to +85° C
- Relative Humidity: 0% to 90% non-condensing

> Power

- Input Voltage: 3.3VDC
- IO Max Rating 3.3v

> Regulatory Approvals

- FCC Part 15, Subpart B, Class B
- ICES-003 Issue 4 (2004), Class B
- EN55022:2006 and EN55024:1998 + A1:2001 + A2:2003
- AS/NZS CISPR22:2006
- VCCI V-3/2009.04
- EN 61000-3-2:2006,
EN 61000-3-3:1995+A1:2001+A2:2005

> Packaging

- Dimensions: 33.9mm (L) x 16.25mm (W) x 13.5mm (H)
- Weight: 9.6g

> Warranty

- 2-year limited warranty

Ordering Information

Americas

Call: 800.422.7055

Email: sales@lantronix.com

Buy Online: <http://www.lantronix.com>

NASDAQ: LTRX

Asia/Pacific/Oceania

Call: +852.3428.2338

Email: asiapacific_sales@lantronix.com

China

Call: +86.021.6237.8868

Email: Shanghai@lantronix.com

Europe/Middle East/Africa (EMEA)

Call: +31 (0) 76.52.3.6.74 4

Email: EMEA@lantronix.com

Japan

Call: +81.3.6277.8802

Email: japan_sales@lantronix.com

> Part Number

XPP1004000-02R

XPP1004005-02R

XP10010NMK-01

> Related Devices

XPP1003000-02R

XPP1003005-02R

> Description

XPort Pro Lx6 RoHS Extended Temperature w/ IPv6 w/ Linux OS w/ 16MB SDRAM – Bulk (Min. Quantity 50 units)

XPort Pro Lx6 RoHS Extended Temperature w/ IPv6 w/ Linux OS w/ 16MB SDRAM – Sample

Universal Demo Board (Module sold separately)

> Description

XPort Pro RoHS Extended Temperature w/Encryption, w/ Linux OS, 16MB SDRAM - Bulk (Min. Quantity 50 units)

XPort Pro RoHS Extended Temperature w/Encryption, w/ Linux OS, 16MB SDRAM - Sample

For more information refer to our website: www.lantronix.com

