MatchPort® NR Embedded Ethernet Device Server



THE ULTIMATE IN FLEXIBILITY, SECURITY, PERFORMANCE AND AFFORDABILITY IN EMBEDDED NETWORKING

MatchPort® NR enables you to build networking into virtually any electronic device with a serial interface. With this full-featured, turnkey embedded device server module your products can be accessed and controlled over the Internet!

Pin-compatible Wireless/Wired Module Family

MatchPort NR is part of a family of pin and form-factor compatible wireless and wired module solutions. The MatchPort family enables you to "future proof" your designs with a choice of flexible media independent 802.11 b/g or Ethernet networking products. It takes the complexity out of RF design and embedded Ethernet networking, enabling you to focus on your products.

Complete Network Processing Module

MatchPort NR is a dedicated co-processor module that manages network activity, permitting the device's host microprocessor to function at maximum efficiency.

Powered by a Lantronix DSTni[™] x86 class processor SoC with 256 KB of on-chip SRAM, MatchPort NR also includes 2MB of Flash memory for web page storage and firmware.



- + Extremely affordable embedded networking
- + Common platform form factor for a family of wired and wireless modules
- + Build Ethernet or IP networking into your products quickly and easily
- + 256-bit AES end-to-end encryption for secure communications
- + Full TCP/IP stack, web server and Windows deployment software
- + Two serial channels; up to 921 Kbps data rate
- + EMC/EMI-compliant; RoHS compliant
- + Compact: 45mm x 45mm with 40-pin 2 mm header







MatchPort® NR

Robust, Feature-Rich Software Suite

Eliminating the need to negotiate the intricacies of Transmission Control Protocol (TCP) or Internet Protocol (IP), MatchPort NR incorporates:

- Robust operating system
- Full featured network protocol stack, including full TCP/IP stack
- Proven, ready-to-use serial-to-ethernet application
- Built-in web server for device communication and configuration via a standard browser
- Windows-based DeviceInstaller[™] making configuring one or more units in a subnet quick and easy

FEATURES

- + Serial Interface
 - Two Serial Ports
 - Interface: CMOS (Asynchronous) 3.3V-level signals, rate is software selectable (300 bps to 921,000 bps)
 - Serial Line Formats: 7 or 8 data bits, 1-2 Stop bits
 - · Parity: odd, even, none
 - Modem Control: DTR, DCD
 - Flow Control: XON/XOFF (software), CTS/RTS (hardware), none

+ Network Interface

- 10Base-T/100Base-TX Ethernet connectivity (using RJ45 jack)
- Protocols Supported: ARP, UDP, TCP, Telnet, ICMP, SNMP, DHCP, BOOTP, Auto IP, HTTP, SMTP, TFTP, RFC 2217 (Telnet

+ Management

- · Internal web server
- SNMP (read only)
- Serial login
- Telnet login
- DeviceInstaller software

+ Security

- 128, 192, 256-bit AES Rijndael encryption
- + Internal Web Server
 - Serves web pages
 - Storage capacity: 1.2 MB

+ Architecture

- CPU, Memory: Lantronix DSTni-EX x86 CPU, on-chip 256 KB zero wait static SRAM, 2,048 KB Flash, 16 KB Boot ROM, 8 GPIO
- Firmware: Upgradeable via TFTP and serial port

+ Power Consumption

 Average Power Consumption: 194mA at 3.3V CPU @ 48MHz, 100Mbps

+ Environmental

- Operating range: -40° to 85°C (-40° to 185°F)
- Storage range: -40° to 85°C (-40° to 185°F)

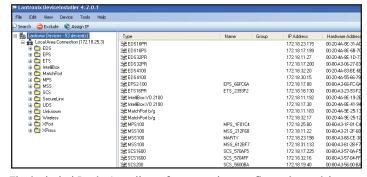
+ Packaging

- Dimensions: 44.4 x 44.4 x 10.4 mm (1.75 x 1.75 x .41 in)
- Weight: 14g
- Material: Plastic shell, 260°C tolerant
- + 2-year limited Warranty
- + Included Software
 - Windows® 98/NT/2000/XP/Vista based DeviceInstaller configuration software and Com Port Redirector,™ Web-Manager

MATCHPORT NR DEMONSTRATION KIT

The demonstration kit contains the key accessories to evaluate a MatchPort NR product:

- + MatchPort NR demonstration board
- + RS-232 cable, DB9F, null modem
- + Cat5e UTP RJ45M/M Ethernet cable
- + 3.3V power supply
- Antenna (Included for use with wireless modules not for MatchPort NR use) Note: MatchPort NR sample must be purchased separately.



The included DeviceInstaller software makes configuration quick and easy!

ORDERING INFORMATION

⊢ Part Number	+ Description
MP5002000-01	MatchPort NR AES bulk pack
	Minimum order quantity 50 units
MP500200S-01	MatchPort NR AES sample case
	 One MatchPort NR enclosed
	 Free Secure Com Port Redirector™ evaluation license
	Order auantities of up to 10

MP10010NMK-01

LANTRONIX[®]

MatchPort NR Demonstration Kit

CORPORATE HEADQUARTERS

