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**

DeviceLinx®

LANTRONIX®

Think it. Connect it. Control it.

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:
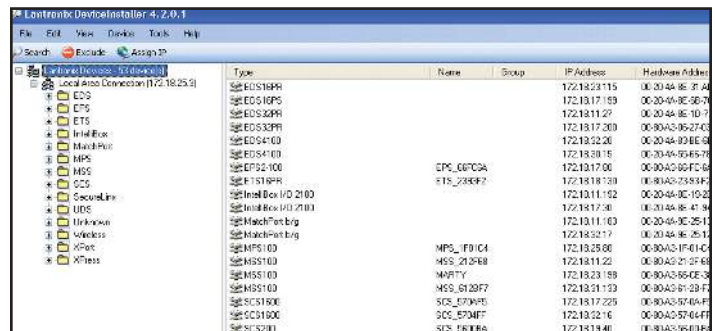
+ MatchPort NR demonstration board

+ 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 quantities of up to 10
MP10010NMK-01	MatchPort NR Demonstration Kit

LANTRONIX®

CORPORATE HEADQUARTERS

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