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 fullfeatured, 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[®]

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!

Eantronix DeviceInstaller 4.2.0.1				
File Edit View Device Tools Help				
🖓 Search \ominus Exclude 🔍 Assign IP				
= 💼 Lantronix Devices - 53 device(s)	Туре	Name Group	IP Address	Hardware Addres
E 🔓 Local Area Connection (172.18.25.3)	SEDS16PR		172.18.23.115	00-20-4A-8E-31-A
🗉 🧰 EDS	SEDS16PS		172.18.17.199	00-20-4A-8E-6B-7
🖶 🧰 EPS	SEDS32PR		172.18.11.27	00-20-4A-8E-1D-7
ETS InteliBox	SEEDS32PR		172.18.17.200	00-80-A3-06-27-0
InteliBox MatchPort	See EDS4100		172.18.32.20	00-20-4A-83-BE-6
Macheoli MPS	See EDS4100		172.18.30.15	00-20-4A-55-66-7
MSS	See EPS2-100	EPS_66FC6A	172.18.17.80	00-80-A3-66-FC-6
E CS	Set ETS16PR	ETS_2393F2	172.18.18.130	00-80-A3-23-93-F
E C SecureLinx	Section 2100 Section 2100		172.18.11.192	00-20-4A-8E-19-2
🗉 🦰 UDS	Received and the second		172.18.17.30	00-20-4A-8E-41-9
🗟 🧰 Unknown	MatchPort b/g		172.18.11.183	00-20-4A-9E-25-1
🗴 🫅 Wireless	Set MatchPort b/g		172.18.32.17	00-20-4A-9E-25-1
🐵 🧰 XPort	Se MPS100	MPS_1F01C4	172.18.25.80	00-80-A3-1F-01-C
🛓 🧰 XPress	Se MSS100	MSS_212F68	172.18.11.22	00-80-A3-21-2F-6
	52 MSS100	MARTY	172.18.23.198	00-80-A3-66-CE-3
	SEMSS100	MSS_612BF7	172.18.31.133	00-80-A3-61-2B-F
	SCS1600	SCS_570AF5	172.18.17.225	00-80-A3-57-0A-F
	SCS1600	SCS_5704FF	172.18.32.16	00-80-A3-57-04-FF
	SCS200	SCS 5600BA	172.18.19.40	00-80-A3-56-00-B/

ORDERING INFORMATION

- + Part Number MP5002000-01
 - MP500200S-01

+ Description MatchPort NR AES bulk pack Minimum order quantity 50 units

MatchPort NR AES sample case • One MatchPort NR enclosed

Order quantities of up to 10

 Free Secure Com Port Redirector[™] evaluation license

MatchPort NR Demonstration Kit

MP10010NMK-01





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