Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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)
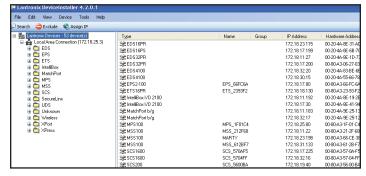 - Storage range: -40° to 85°C (-40° to 185°F)
+ **Packaging**
  - Dimensions: 44.4 x 44.4 x 10.4 mm (1.75 x 1.75 x .41 in)
  - Weight: 14g
  - Material: Plastic shell, 260°C tolerant
+ **2-year limited Warranty**
+ **Included Software**
  - Windows® 98/NT/2000/XP/Vista based DeviceInstaller configuration 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®

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