

ND-8511(D)

Serial to Ethernet Data Converter



Introduction

ND-8511(D) is a single-port RS-232/422/485 to Ethernet data converter. Its compact sized communication module allows users to control serial devices (RS-232/422/485) over a TCP/IP-based Ethernet network. Users may connect host computer systems (Windows/2000/XP) to a native serial port through a TCP/IP Ethernet. With one asynchronous serial port connection on one end and a 10/100Mbps Ethernet connection on the other, ND-8511(D) also allows any device that primarily supports the asynchronous communications protocol to attach to a network. ND-8511(D) works like an add-on single-port serial board to PC servers, but with advantages of the TCP/IP network protocol. With the ND-8511(D), users are able to control asynchronous serial devices from virtually any location. Serial devices connects through a virtual Ethernet link, but are recognized as a real COM port by Windows. ND-8511(D) can be used with existing applications, and comes with a utility program providing a simple step-by-step installation procedure and maintenance wizard that gives users easy access to asynchronous devices.

Features

- 48MHz, 186-Based Controller 12.5MIPS
- Auto sensing 10/100Base-T Ethernet
- High speed serial port (up to 230kbps) with hardware and modem flow controls
- 3 digital I/O pins (software selectable, shared with serial port signal)
- Compact size for easy integration
- TCP/IP, UDP, DHCP, SNMP, Telnet, ARP, ICMP, and TFTP Protocol Support
- E-Mail function (send only)
- Support for flow & modem control signals
- Module configuration utility
- Windows native COM drivers support, compatible with existing serial software

Specifications

CPU	48MHz, 186-Based Controller 12.5MIPS
Serial Interface	7 or 8 data bits; 1-2 stop bits; parity: odd, even, and none; software selectable baudrate (300-230400bps)
Modem Control	DTR, DCD, CTS, RTS
Flow Control	XON/XOFF (software), RTS/CTS (hardware)
Network Interface	RJ45 Ethernet 10base-T or 100base-TX (Auto-sensing)
Compatibility	Ethernet: Version 2.0/IEEE 802.3
Protocols support	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, AutoIP, SMTP, and HTTP
Temperature	Operating range: -40°C to 85°C (-40°F to 185°F)
Relative Humidity	Operating: 5% to 95% non-condensing
Shock/Vibration	Non-operational shock: 500g's, Non-operational vibration: 20g's
Power	DC 10V to DC 30V

Supported Serial Devices

- ATM Machines
- CNC Controllers
- Data Collection Devices
- Universal Power Supply (UPS) Management Units
- Telecommunications Equipment
- Data Display Devices
- Security Alarms and Access Control Devices
- Handheld Instruments
- Modems
- Time/Attendance Clocks and Terminals

Ordering Information

ND-8511/230V	1 Port RS-232/422/485 to Ethernet Data Converter with Power Adapter (Euro Spec.)
ND-8511/110V	1 Port RS-232/422/485 to Ethernet Data Converter with Power Adapter (USA Spec.)
ND-8511D/230V	1 Port RS-232 to Ethernet Data Converter with Power Adapter (Euro Spec.)
ND-8511D/110V	1 Port RS-232 to Ethernet Data Converter with Power Adapter (USA Spec.)

Applications

- Industrial Control and Process system
- CIM (Computer Integrated Manufacturing) system
- Security Control system
- Remote Control System