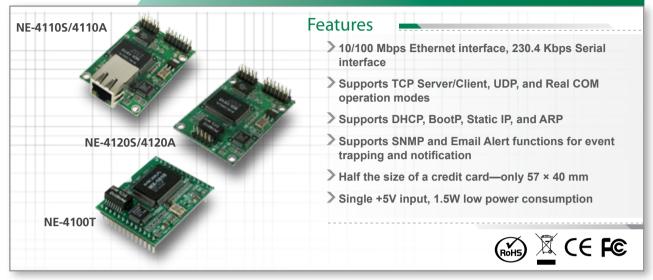
# **NE-4100 Series**

## 100 Mbps Embedded Network Enabler for Serial Devices



## **Overview**

MOXA NE-4100 Series Network Enablers are designed for manufacturers who want to add sophisticated network connectivity to their products. Any device with a standard serial interface can connect to Ethernet with MOXA Network Enablers in a snap. NE-4110 Series provides a 10/100 Mbps Ethernet interface with ready-to-use TCP Server/Client and UDP, and a Real COM driver is also included for backward compatibility with the original software.

## **SNMP** and Email Alert for Event Trap/Notification

NE-4100 Series will send SNMP trap or Emails when the following conditions occur:

- Cold/Warm start
- Password authentication fails
- IP Setting changes Password changes
- DSR/DCD line signal changes

### : NE-4100-CMD Series—Lets you configure on-site

- Easy to configure network settings on-site
- Simple command frame format
- Comprehensive readable command set for network settings and serial settings
- Easily switch between Software and Hardware Trigger Types
- Software Reset available

## **Typical Installation Examples**



Stand-alone Type (RJ45 Ethernet, NE-4110 Series)



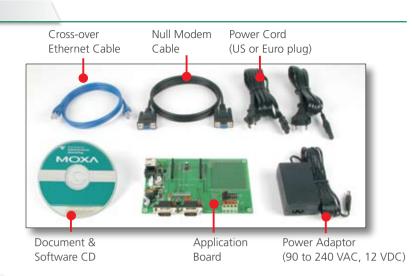
**Stand-alone Type** (Pin header Ethernet, NE-4120 Series)



**Drop-in Type** (Dual-in-line pin header, NE-4100T)

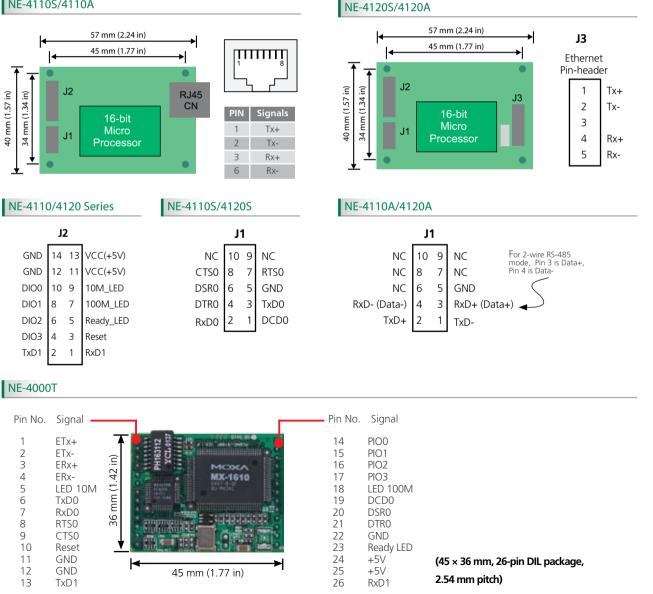
## **NE-4100** Series Starter Kit

MOXA's Network Enabler Starter Kits. which include an evaluation board, power adaptor, Ethernet and serial cables, and software CD-ROM, let you evaluate all Network Enabler functions guickly and easily. The evaluation board is equipped with serial, Ethernet, digital I/O, and power circuits that help you evaluate the Network Enabler modules.



#### **Pin Assignment** :

#### NE-4110S/4110A



#### **:** Ordering Information

NE-4110S: 100 Mbps Network Enabler for RS-232 devices, with RJ45 Ethernet connector
NE-4110A: 100 Mbps Network Enabler for RS-422/485 devices, with RJ45 Ethernet connector
NE-4120S: 100 Mbps Network Enabler for RS-232 devices, with 5-pin Ethernet pin header
NE-4120A: 100 Mbps Network Enabler for RS-422/485 devices, with 5-pin Ethernet pin header
NE-4100T: 100 Mbps Network Enabler for TTL devices, with DIL package
NE-4110S-CMD: Serial Command Version, 100 Mbps Network Enabler for RS-232 devices, with RJ45 Ethernet connector
NE-4120S-CMD: Serial Command Version, 100 Mbps Network Enabler for RS-232 devices, with S-pin Ethernet connector
NE-4120S-CMD: Serial Command Version, 100 Mbps Network Enabler for RS-232 devices, with 5-pin Ethernet pin header
NE-4120S-CMD: Serial Command Version, 100 Mbps Network Enabler for RS-232 devices, with 5-pin Ethernet pin header
NE-4120S-CMD: Serial Command Version, 100 Mbps Network Enabler for RS-422/485 devices, with 5-pin Ethernet pin header
NE-4120S-CMD: Serial Command Version, 100 Mbps Network Enabler for RS-422/485 devices, with 5-pin Ethernet pin header
NE-4120S-CMD: Serial Command Version, 100 Mbps Network Enabler for RS-422/485 devices, with 5-pin Ethernet pin header
NE-4110-ST: Starter Kit for NE-4110 Series
NE-4120-ST: Starter Kit for NE-4110 Series
NE-4100-ST: Starter Kit for NE-4120 Series

## **Specifications**

#### **Form Factor**

#### Type:

NE-4110/4120 Series: Stand-alone module, ready-to-go NE-4100T Series: 26-pin dual-in-line package **Dimensions:** NE-4110/4120 Series: 57 × 40 mm NE-4100T Series: 45 × 36 mm

#### LAN Interface

Type: 10/100 Mbps auto-sensing MDI/MDIX Protection: 1.5 KV isolation Connector: NE-4110 Series: RJ45 connector NE-4120 Series: 5-pin Pin Header

#### **Serial Interface**

Port 1:

NE-4110S/4120S: RS-232 NE-4110A/4120A: RS-422/RS-485 (2-wire)/RS-485 (4-wire) NE-4100T: serial (TTL) **Port 2:** serial (TTL) console port

#### **Serial Signals**

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422: Tx+, Tx-, Rx+, Rx-, GND
RS-485: Data+, Data-, GND with ADDC™
(Automatic Data Direction Control)
TTL (Port 1): TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

#### TTL (Port 2): TxD, RxD, GND

#### Serial Parameters

**Parity:** None, Even, Odd, Space, Mark **Data Bits:** 5, 6, 7, 8 Stop Bits: 1, 1.5, 2 Flow Control: RTS/CTS, XON/XOFF Speed: 110 bps to 230.4 Kbps

**Digital I/O Pins** Four programmable I/O pins (GPIO)

## Software Features

**Protocols:** ICMP, ARP, IP, TCP, UDP, DHCP, Telnet, HTTP, SNMP, SMTP

Utilities: Newwork Enabler Administration Suite for Windows 95/98/ME/NT/2000/XP/2003

**OS Driver Support:** Windows 95/98/ME/NT/2000/XP/2003/ XP x64/2003 x64 COM driver, Linux real TTY

**Configuration:** Web/Serial/Telnet Console, or Windows Utility

**Operation Modes:** TCP Server, TCP Client, UDP, Real COM Driver (supporting Windows 98/NT/2000/XP)

#### **Power Requirements**

Power input: 5 VDC, +/- 5%

Power consumption: 290 mA @ 5 VDC (max.)

#### **Temperature/Humidity**

**Operation:** 0 to 70°C (32 to 158°F), 5 to 95% RH **Storage:** -20 to 85°C (-4 to 185°F), 5 to 95% RH

Regulatory Approvals EMC:

CE: Class A FCC: Class A **Warranty:** 5 years