

NE-4100 Series

100 Mbps Embedded Serial Device Servers

NE-4110S/4110A

NE-4120S/4120A

NE-4100T



Features

- 10/100 Mbps Ethernet interface, 230.4 Kbps serial interface
- TCP Server, TCP client, UDP, and Real COM operation modes
- Support for DHCP, BootP, Static IP, and ARP
- SNMP and e-mail alert for event trapping and notification
- Only 57 × 40 mm, half the size of a credit card
- Low power consumption at 1.5W, with single +5V input



Overview

NE-4100 embedded device servers 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 embedded devices servers in a snap. NE-4110 embedded

device servers provide a 10/100 Mbps Ethernet interface with ready-to-use operation modes such as TCP Server, TCP Client, and UDP. A Real COM driver is also included for backwards compatibility with legacy software.

SNMP and E-mail Alert for Event Trap and Notification

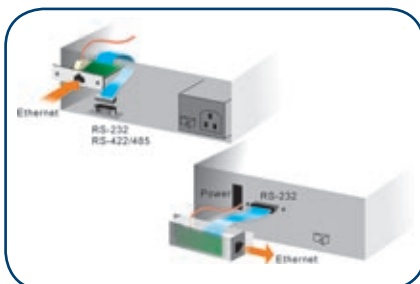
NE-4100 embedded device servers can be configured to send an SNMP trap or e-mail under the following conditions:

- Cold/warm start
- Change in IP address
- Failure in password authentication
- Change in password
- Change in DSR/DCD line signal

On-site Configuration with Serial Command Mode

- Easy on-site configuration of network settings
- Simple command frame format
- Comprehensive command set for serial and network configuration
- Easily switch between software and hardware triggers
- Software reset

Typical Installation Examples



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



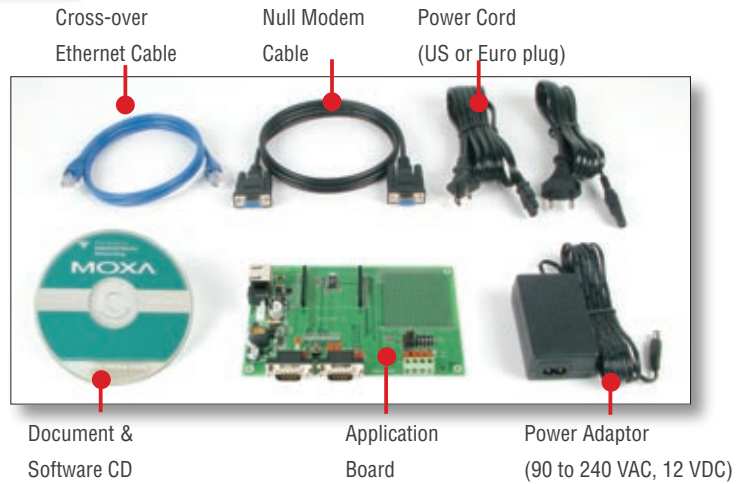
Stand-alone Type
(Pin header Ethernet, NE-4120)



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

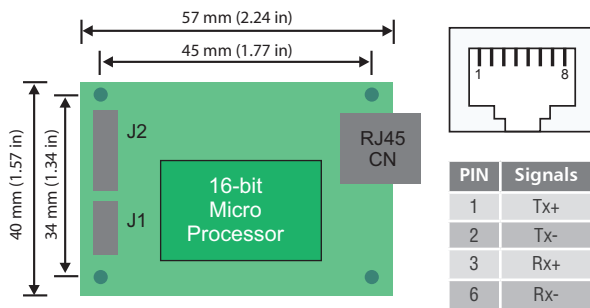
NE-4100 Starter Kit

The Network Enabler Starter Kit includes an evaluation board, power adaptor, software, and serial and Ethernet cables to allow quick and easy evaluation of all embedded device server functions. The evaluation board is equipped with serial, Ethernet, digital I/O, and power circuits to help you test your modules and applications.

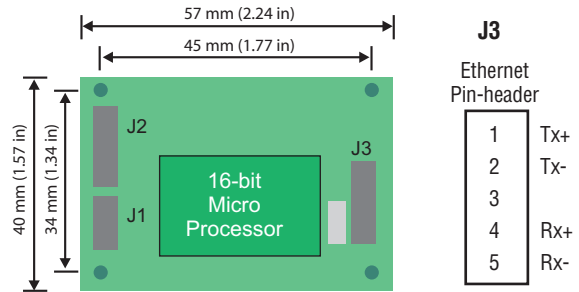


Pin Assignment

NE-4110S/4110A



NE-4120S/4120A



NE-4110/4120 Series

J2		
GND	14	13 VCC(+5V)
GND	12	11 VCC(+5V)
DIO0	10	9 10M_LED
DIO1	8	7 100M_LED
DIO2	6	5 Ready_LED
DIO3	4	3 Reset
TxD1	2	1 Rx/D1

NE-4110S/4120S

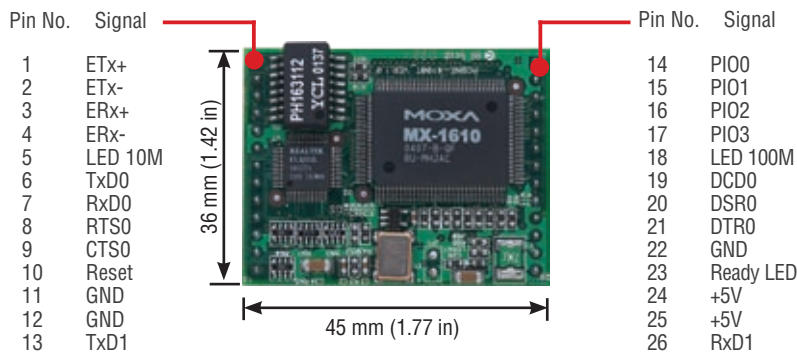
J1		
NC	10	9 NC
CTS0	8	7 RTS0
DSR0	6	5 GND
DTR0	4	3 Tx/D0
RxD0	2	1 DC/D0

NE-4110A/4120A

J1		
NC	10	9 NC
NC	8	7 NC
NC	6	5 GND
RxD- (Data-)	4	3 RxD+ (Data+)
TxD+	2	1 TxD-

For 2-wire RS-485 mode, Pin 3 is Data+, Pin 4 is Data-

NE-4100T



(45 × 36 mm, 26-pin DIL package, 2.54 mm pitch)

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-4110-ST: Starter kit for NE-4110S/NE-4110A
NE-4120-ST: Starter kit for NE-4120S/NE-4120A
NE-4100-ST: Starter kit for NE-4100T

Specifications

Form Factor

Type:

NE-4110, NE-4120 Series: Stand-alone module, ready-to-go

NE-4100T: 26-pin dual-in-line package

Dimensions:

NE-4110, NE-4120 Series: 57 × 40 mm

NE-4100T: 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 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 Bit(s): 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: Network Enabler Administration Suite for Windows 95/98/ME/NT/2000/XP/2003/Vista

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

Configuration: Web console, serial console, Telnet console, or Windows utility

Operation Modes: TCP Server, TCP Client, UDP, Real COM

Power Requirements

Power input: 5 VDC, +/- 5%

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

Temperature/Humidity

Operation: 0 to 50°C (32 to 131°F), 5 to 95% RH for standard models
 -40 to 75°C (-40 to 185°F), 5 to 95% RH for -T models

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

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



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