NPort 1220/1220I

Isolated 2-Port RS-422/485 USB-to-Serial Hub

Features

- **Expand to 2 RS-422/485 ports via USB**
- **Supports 4-wire RS-422/485 and 2-wire RS-485 applications**
- **Hot plug and play**
- **Supports bus power and external power**
- **No additional I/O, IRQ required**
- **RS-422/485 speed up to 115.2 Kbps**
- **Supports USB 1.1, full rate speed up to 12 Mbps**
- **Built-in 15 KV ESD Surge Protection**
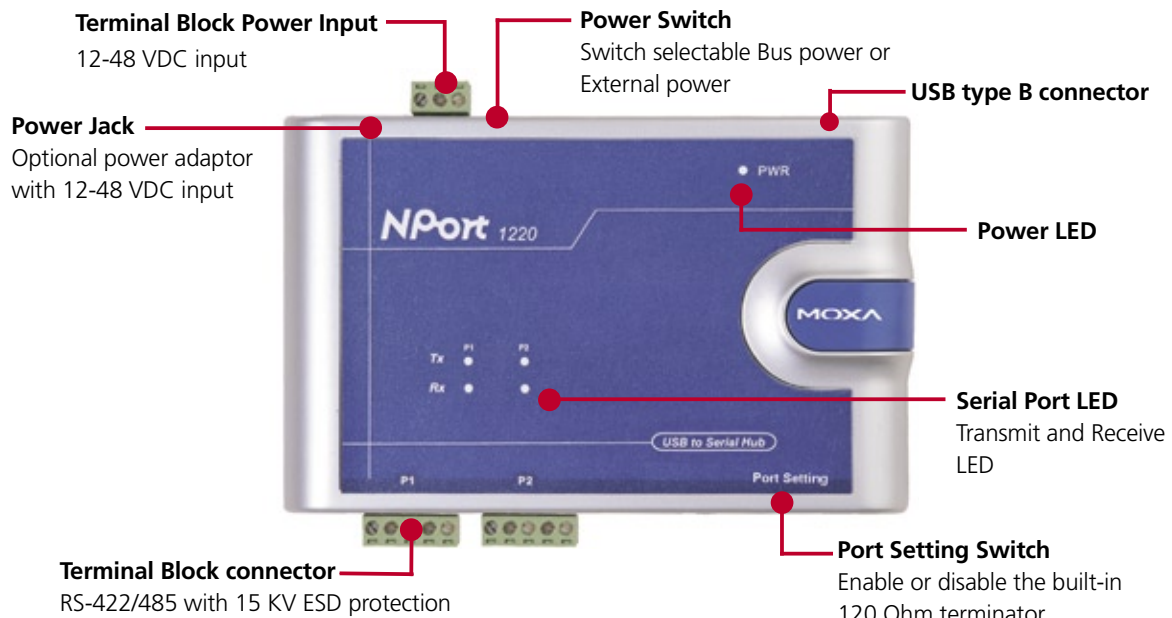- **Supports 2 KV Isolation (NPort 1220I)**

Instant Plug and Play

NPort 1220 gives your laptop or workstation the ability to communicate between a USB (Universal Serial Bus) port and up to 2 RS-422/485 serial peripherals. NPort 1220 adds 2 Windows serial COM ports via its USB port, and is compatible with new and legacy RS-422/485 devices.
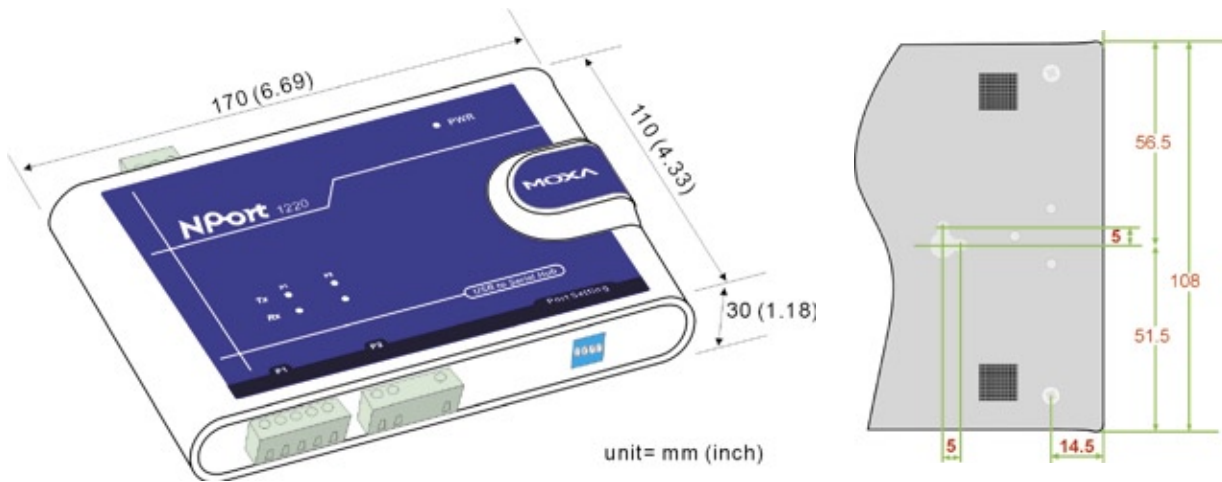
Simplified, Hassle-Free Serial Port Expansion

USB plug and play allows easy serial port expansion and requires no IRQ, DMA, or I/O port resources. Users no longer need to open the chassis or power down the system, saving on setup time and cost.

Terminal Block Power Input
12-48 VDC input

Power Switch
Switch selectable Bus power or External power

USB type B connector

Power Jack
Optional power adaptor with 12-48 VDC input

Power LED

Serial Port LED
Transmit and Receive LED

Terminal Block connector
RS-422/485 with 15 KV ESD protection

Port Setting Switch
Enable or disable the built-in 120 Ohm terminator

Dimensions

unit= mm (inch)

Specifications

USB

Compliant with USB 1.0, 1.1, 2.0

USB 2.0 backwards compatible

Connector: USB type B

Speed: 12 Mbps at full speed

Serial

No. of Ports: 2

Interface:

4-wire RS-422: TxD+/-, RxD+/-, GND

4-wire RS-485: TxD+/-, RxD+/-, GND

2-wire RS-485: Data+/-, GND

Connector: Terminal Block

FIFO: 128 bytes

Serial line protection: 15 KV ESD for all signals

Serial Communication Parameters

Parity: None, Even, Odd

Data bits: 7, 8

Stop bits: 1, 2

Speed: 600 to 115.2 Kbps

RS-485 Data Direction Control:

Patented ADDC™ (Automatic Data Direction Control)

Power Requirements

Operating Systems: Windows 98/ME/2000/XP/2003, Linux 2.4

Power Input: 12 to 48 VDC (external) or 5 VDC (Bus power)

Power Consumption:

NPort 1220: 150 mA (5V), 140 mA (12V)
            70 mA (24V), 65 mA (48V)

NPort 1220I: 350 mA (5V), 260 mA (12V)
            130 mA (24V), 75 mA (48V)

Mechanical Specifications

Material: ABS

Gross Weight: 220±5g (0. 48 lb)

Environmental

Operating Temperature: 0 to 55°C (32 to 131°F)

Storage Temperature: -20 to 75°C (-4 to 167°F)

Operating Humidity: 5 to 95% RH

Regulatory Approvals

EMC: FCC (Class B), CE (class B)

Safety: UL, CUL, TÜV

Warranty: 5 years

Odering Information

NPort 1220:

USB to 2-Port RS-422/485 Serial HUB

NPort 1220I:

USB to 2-Port RS-422/485 Serial HUB with Isolation

All Items Include:

• 1 USB-to-Serial HUB

• Quick Installation Guide

• Documentation and Software CD-ROM

Optional Accessories:

• DK-35B DIN-Rail Mounting Kit (35 mm)