UPort 1250/1250I

2-port RS-232/422/485 USB-to-Serial Hub with 2 KV Isolation Protection

Features

> Supports hi-speed USB 2.0, for up to 480 Mbps data transmission
> Serial transmission speed up to 921.6 Kbps
> 128-byte FIFO and on-chip H/W, S/W flow control
> No additional I/O or IRQ required
> Built-in 15 KV ESD surge protection
> Supports Windows 2000 and Windows XP/2003 (x86 and x64) drivers
> Easy maintenance with LED display and management software
> Mini female DB9 to terminal block for easy wiring
> Bus power (UPort 1250) and external power (UPort 1250I) models available

UPort 1250

UPort 1250I

Instant Plug and Play

The UPort 1200 series of USB-to-serial hubs allow you to connect up to 2 RS-232/422/485 devices to your laptop or workstation through the USB (Universal Serial Bus) port. This plug and play USB solution is perfect for mobile, instrumentation, and point-of sale applications.

Simplified, Hassle-free Serial Port Expansion

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

Top Performance with USB2.0, 128-byte FIFO and on-chip H/W, S/W Flow Control

MOXA's many years of experience in USB related design is now built into MOXA's new top performance CPU chip, called MOXA ART, which equips the UPort 1200 Series with a USB 2.0 480 Mbps (hi-speed), 128-byte FIFO, on-chip hardware and software flow control, and burst data mode. This makes the UPort 1200 Series the top performing USB-to-Serial hub in the world.

Ordering Information

UPort 1250: USB to 2-port RS-232/422/485 Serial Hub
UPort 1250I: USB to 2-port RS-232/422/485 Serial Hub with 2 KV Isolation Protection

All items include

• 1 USB-to-Serial Hub and USB cable
• Document and Software CD-ROM
• Quick Installation Guide
• 1 x mini DB9F-to-TB adaptor
• Power adaptor (UPort 1250I only)

Optional Accessories

Mini DB9F-to-TB: Mini Female DB9 to Terminal Block Adaptor

Dimensions

UPort 1250

UPort 1250I

7
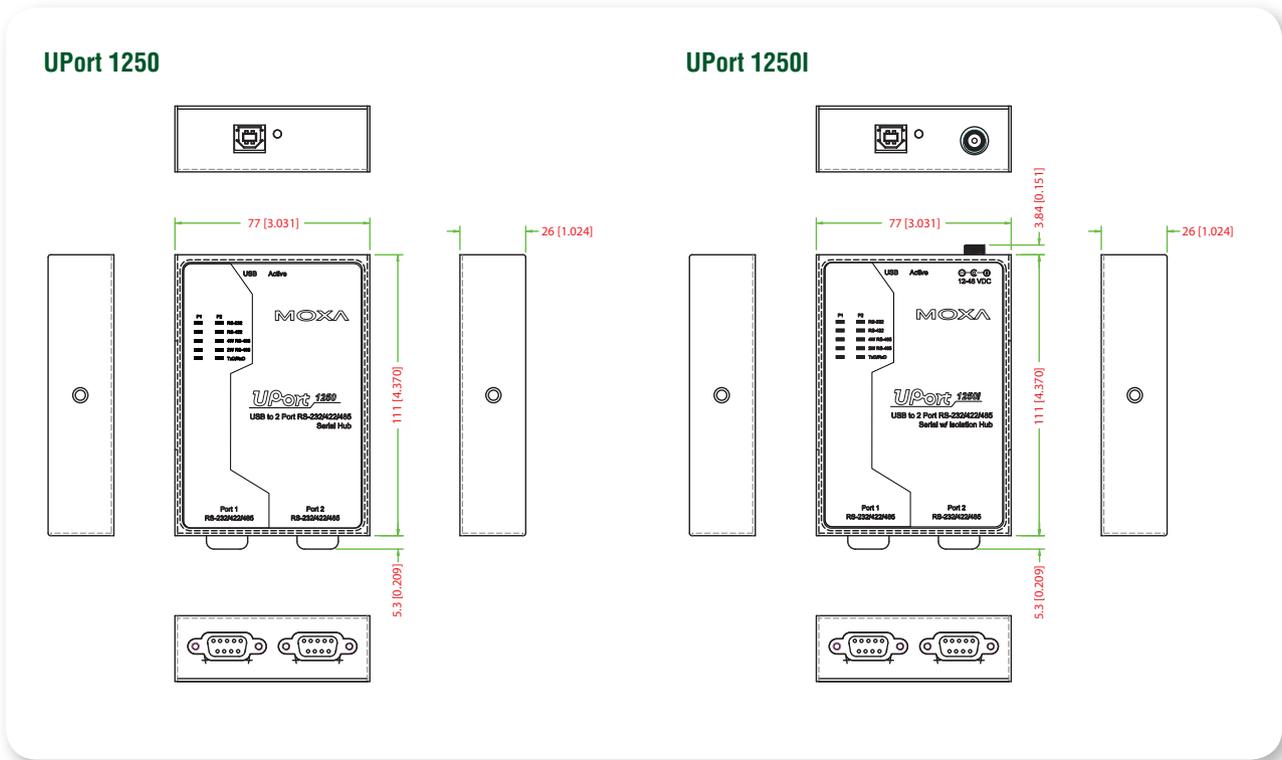
: Pin Assignment

Male DB9
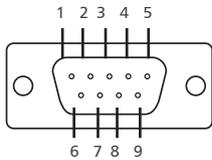
PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
1	DCD	TxD-(A)	–
2	RxD	TxD+(B)	–
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	–	–
7	RTS	–	–
8	CTS	–	–

: Specifications

USB

Speed: Hi-Speed (480 Mbps), Full Speed (12 Mbps)
Compliant with USB 1.1, 2.0
Connector Type: USB Type B

Serial

Number of Ports: 2

Interface

Signals:
RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422: TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
4-wire RS-485: TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
2-wire RS-485: Data+(B), Data-(A), GND
Connector: Male DB9
FIFO: 128 bytes

Performance

Baudrate: 50 bps to 921.6 Kbps

Configuration

Data Bits: 5, 6, 7, 8

Stop Bits: 1, 1.5, 2
I/O address/IRQ: BIOS assigned
Parity: None, Even, Odd, Space, Mark
Flow Control: RTS/CTS, XON/XOFF
Operating Systems: Windows 2000, Windows XP/2003(x86 and x64)

Power and Environment

Power Requirement:
UPort 1250 (5 VDC Bus Power): 360 mA (max)
UPort 1250I (12 to 48 VDC External Power): 200 mA (max)
Operating Temperature: 0 to 55°C (32 to 131°F)
Operating Humidity: 5 to 95% RH
Storage Temperature: -20 to 75°C (-4 to 167°F)

Surge Protection: Embedded 15 KV ESD Protection

Regulatory Approvals

EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, FCC Part 15 Class A, UL, CUL, TÜV

Warranty: 5 years