UPort 1610-8/1650-8

8-port RS-232 or RS-232/422/485 USB-to-Serial Hub

Features

> **Supports high-speed USB 2.0, up to 480 Mbps**
> **Serial transmission speed up to 921.6 Kbps**
> **128-byte FIFO and on-chip H/W, S/W flow control**
> **Built-in 15 KV ESD Protection**
> **IP30-rated, rugged metal case**
> **COM port assignments maintained across different PCs**
> **Optional magnet accessories for attaching to PC's case**
> **Mini Female DB9 to Terminal Block for easy wiring**
> **Supports both bus power and external power**

Instant Plug and Play

The UPort 1600 Series enables your laptop or workstation with the ability to communicate between a USB (Universal Serial Bus) port and up to 8 RS-232 or RS-232/422/485 serial peripherals. The UPort 1600 Series adds 8 Windows serial COM ports through a USB port and is compatible with both new and legacy RS-232 or RS-422/485 devices. 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 when adding COM ports, saving on setup time and cost.

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

Our many years of experience in serial board design is now concentrated in MOXA's new top performance CPU chip. Called MOXA ART, the chip equips the UPort 1600 Series with USB 2.0 (high-speed 480 Mbps), 128-byte FIFO, on-chip hardware and software flow control, and burst data mode. This makes the UPort 1600 Series the top performing USB-to-serial hub in the world.

Ordering Information

UPort 1610-8: 8-port RS-232 USB-to-Serial Hub
UPort 1650-8: 8-port RS-232/422/485 USB-to-Serial Hub

Package Checklist
• 1 USB-to-Serial Hub
• Quick Installation Guide and CD-ROM
• USB Cable and Power Adaptor
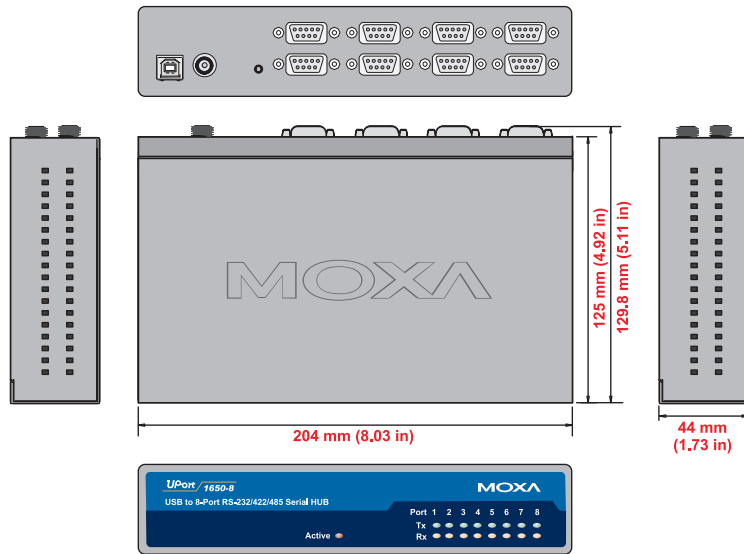• 1 x Mini DB9F-to-TB (UPort 1650-8)

Optional Accessories

Mini DB9F-to-TB: Mini Female DB9 to Terminal Block
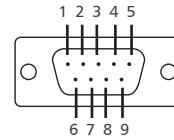**Magnets:** For attaching the hub to a PC's case

Dimensions *(unit = mm)*

Male DB9 RS-232/422/485 port

125 mm (4.92 in)
129.8 mm (5.11 in)

204 mm (8.03 in)

44 mm
(1.73 in)

UPort 1650-8
USB to 8-Port RS-232/422/485 Serial HUB
Active
Port 1 2 3 4 5 6 7 8
Tx
Rx

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	---	---

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USB-to-Serial Hubs/Adaptors

⸬ Specifications

USB
Speed: High Speed (480 Mbps), Full Speed (12 Mbps)
Compliant with USB 1.0, 1.1, 2.0
Connector Type: USB Type B

Serial
Number of Ports: 8

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
Data Bits: 5, 6, 7, 8
Stop Bit(s): 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 1610-8: 230 mA (max) @ 12 VDC external power
UPort 1650-8: 340 mA (max) @ 12 VDC external power
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)

ESD 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