

UPort 1610-16/1650-16

16-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
- Standard 19-inch rack-mountable
- Built-in 15 KV ESD Surge Protection
- IP30-rated, rugged metal case
- COM port assignments maintained across different PCs
- Optional magnet accessories to attach on 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 16 RS-232 or RS-232/422/485 serial peripherals. UPort 1600 Series adds 16 Windows serial

COM ports via its USB connection and is compatible with 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, 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 USB related design is now concentrated on MOXA's new top performance CPU chip. Called MOXA ART, the chip equips the UPort 1600 Series with USB 2.0 480 Mbps (high-speed), 128-byte FIFO, on-

chip hardware and software flow control, and burst data mode. This makes UPort 1600 Series the top performing USB-to-Serial Hub in the world.

19-inch Rackmount USB-to-Serial Hub

UPort 1610-16/1650-16 has a professional cabinet design, with Tx/Rx LEDs for all serial ports on the front panel, and the male DB9 serial ports on the rear panel. This makes

UPort 1610-16/1650-16 suitable for standard 19-inch rack mounting, simplifying operation, maintenance, and administration.

Ordering Information

UPort 1610-16: USB to 16-port RS-232 Serial Hub

UPort 1650-16: USB to 16-port RS-232/422/485 Serial Hub

All items include

- 1 USB-to-Serial Hub
- Quick Installation Guide and CD-ROM

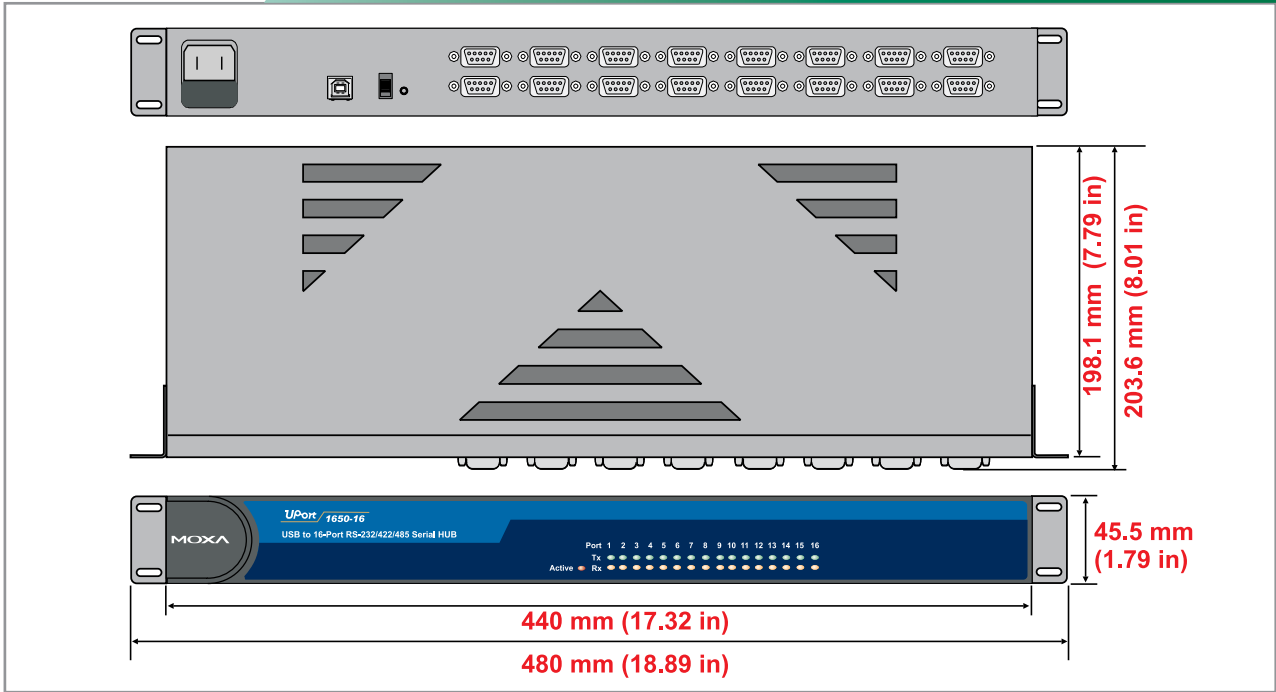
- USB cable and Power Adaptor
- 16 x Mini DB9F-to-TB (UPort 1650-16)

Optional Accessories

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

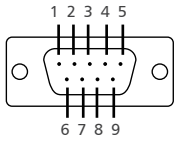
Magnets: For attaching on PC's case

Dimensions



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: 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: 16

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/XP/2003

Power and Environment

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