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 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 16 RS-232 or RS-232/422/485 serial peripherals. The UPort 1600 Series adds 16 Windows serial COM ports through a USB connection 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 to add 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.

19-inch Rackmount USB-to-Serial Hub

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

Ordering Information

UPort 1610-16: 16-port RS-232 USB-to-Serial Hub
UPort 1650-16: 16-port RS-232/422/485 USB-to-Serial Hub

Optional Accessories

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

Package Checklist
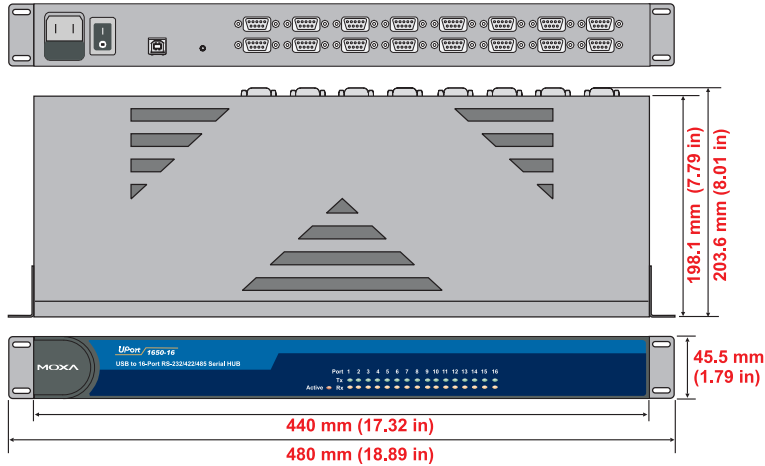
- 1 USB-to-Serial Hub
- Quick Installation Guide and CD-ROM
- USB Cable and Power Cord
- 1 x Mini DB9F-to-TB (UPort 1650-16)

Dimensions *(unit = mm)*
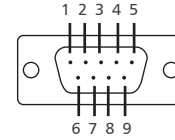

Male DB9 RS-232/422/485 port

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: 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 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 1610-16: 130 mA (max) @ 100 VAC

UPort 1650-16: 130 mA (max) @ 100 VAC

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