

# UPort 1400 Series

4-Port RS-232 or RS-232/422/485 USB-to-Serial Hub with 2 KV Isolation Protection



## Features

- Supports hi-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
- 2 KV Optical Isolation Protection (UPort-1450I only)
- IP30-rated, rugged metal case
- COM port assignments maintained across different PCs
- Optional magnet accessories to attach on PC's case
- Supports Windows 2000 and XP/2003(x86 & x64) operating systems
- Supports both bus power and external power



## : Instant Plug and Play

The UPort 1400 Series enables your laptop or workstation with the ability to communicate between a USB (Universal Serial Bus) port and up to 4 RS-232 or RS-232/422/485 serial peripherals. UPort 1400 Series adds 4 Windows serial COM ports through 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 USB 2.0, 128-byte FIFO, and on-chip H/W, S/W Flow Control

Our many years of experience in USB related design is now concentrated in MOXA's new top performance CPU chip. Called MOXA ART, the chip equips the UPort 1400 Series with 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 1400 Series the top performing USB-to-serial hub in the world.

## : Ordering Information

**UPort 1410:** USB to 4-port RS-232 Serial Hub

**UPort 1450:** USB to 4-port RS-232/422/485 Serial Hub

**UPort 1450I:** USB to 4-port RS-232/422/485 Serial Hub with 2 KV Isolation Protection

### All items include

- 1 USB-to-Serial Hub
- Quick Installation Guide and CD-ROM
- USB Cable and Power Adaptor
- 1 x Mini DB9F-to-TB (UPort 1450 and UPort 1450I)

### Optional Accessories

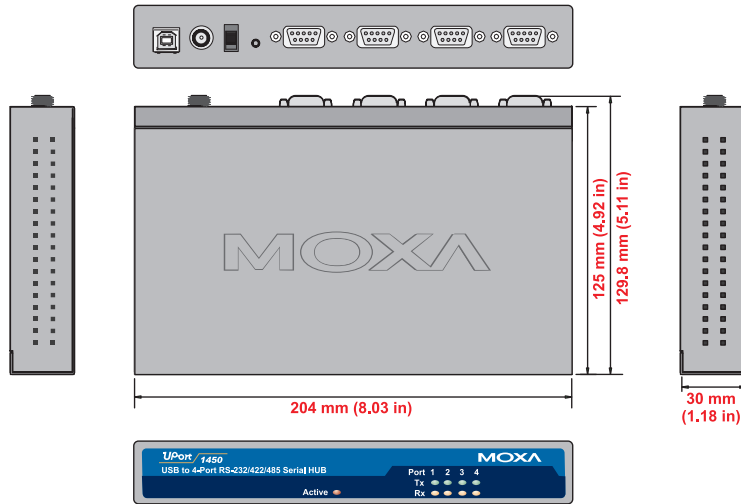
**Mini DB9F-to-TB:** Mini Female DB9 to Terminal Block

**Magnets:** For attaching the hub to a PC's case

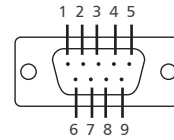
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USB-to-Serial Hubs/Adapters

## Dimensions



### 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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## Specifications

### USB

**Speed:** Hi-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:** 4

### 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

**Power Requirement:**

UPort 1410: 180 mA (max.)

UPort 1450: 260 mA (max.)

UPort 1450I: 360 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

**Optical Isolation:** 2 KV (UPort 1450I only)

### 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