

# UPort™ 1400 Series

**4-port RS-232 and RS-232/422/485 USB-to-serial converters with 2 KV isolation protection**



- > Hi-Speed USB 2.0 for up to 480 Mbps USB transmission
- > 921.6 Kbps maximum baudrate for super fast data transmission
- > 128-byte FIFO and on-chip H/W, S/W flow control
- > Built-in 15 KV ESD protection for all serial ports
- > 2 KV optical isolation protection (UPort™ 1450I only)
- > IP30-rated, rugged metal housing
- > COM port assignments maintained across different PCs
- > Certified drivers provided for Windows (including Vista) and WinCE 5.0
- > Choose bus power or external power

The certification logos shown here apply to some or all of the products in this section. Please see the **Specifications** section or Moxa's website for details.



## Instant Plug & Play

The UPort™ 1400 USB-to-serial converters allow you to connect 4 RS-232/422/485 devices to your laptop or workstation through the USB (Universal Serial Bus) port. The UPort™ 1400 converters are

compatible with new and legacy serial devices, and are perfect for mobile, instrumentation, and point-of-sale applications.

## Simplified, Hassle-free Serial Port Expansion

USB plug & play makes serial port expansion easy, and does not require 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 Serial Performance

Moxa's 20-plus years of experience in serial board design is now built into a new top performance CPU called MOXA ART. This chip equips the UPort™ 1400 converters with USB 2.0 (Hi-Speed 480 Mbps), a

128-byte FIFO, on-chip hardware and software flow control, and burst data mode, making Moxa's UPort™ converters perform far better than the competition.

## Specifications

### USB

**Compliance:** USB 1.1/2.0 compliant  
**Connector:** USB type B  
**Speed:** 480 Mbps (Hi-Speed USB) and 12 Mbps (Full-Speed USB)

### Serial Interface

**Number of Ports:** 4  
**Serial Standards:**  
 UPort™ 1410: RS-232  
 UPort™ 1450/1450I: RS-232/422/485

**Connectors:** DB9 male

### Serial Line Protection

**ESD Protection:** 15 KV embedded  
**Optical Isolation Protection:** 2 KV (UPort™ 1450I only)

### Performance

**Baudrate:** 50 bps to 921.6 Kbps

### Serial Communication Parameters

**Data Bits:** 5, 6, 7, 8  
**Stop Bits:** 1, 1.5, 2  
**Parity:** None, Even, Odd, Space, Mark  
**Flow Control:** RTS/CTS, XON/XOFF  
**I/O Address:** Assigned by BIOS  
**IRQ:** Assigned by BIOS  
**FIFO:** 128 bytes

**Serial Signals**  
**RS-232:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  
**RS-422:** TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND  
**RS-485-4w:** TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND  
**RS-485-2w:** Data+(B), Data-(A), GND

### Driver Support

**Operating Systems:** Windows (2000, XP x86/x64, 2003 x86/x64, Vista x86/x64) and WinCE 5.0

### Physical Characteristics

**Housing:** SECC sheet metal (1 mm), IP30 protection

#### Weight:

Product only: 720 g (1.59 lb)  
Packaged: 1345 g (2.96 lb)

**Dimensions:** 204 x 30 x 125 mm (8.03 x 1.18 x 4.92 in)

### Environmental Limits

**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)

**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

### Power Requirements

#### Power Consumption:

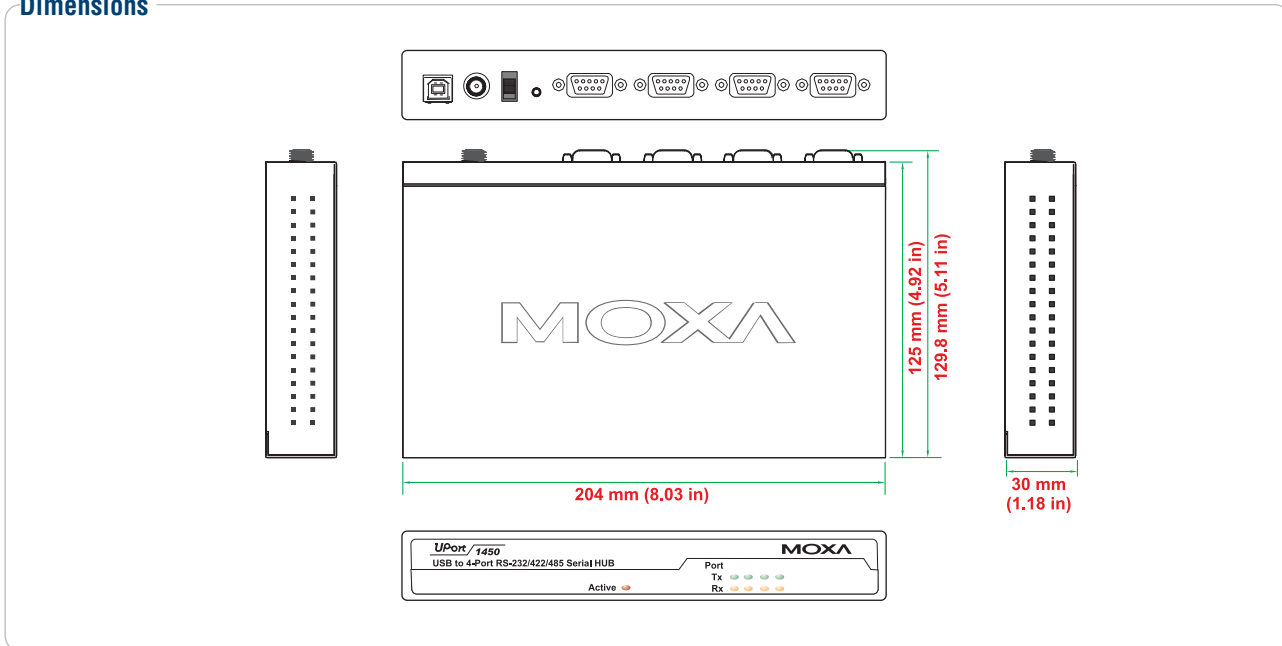
UPort™ 1410 (bus power): 180 mA @ 5 VDC  
UPort™ 1450 (12 to 48 VDC external power): 260 mA @ 12 VDC  
UPort™ 1450I (12 to 48 VDC external power): 360 mA @ 12 VDC

### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Dimensions



### Ordering Information

#### Available Models

- UPort™ 1410:** 4-port RS-232 USB-to-serial converter
- UPort™ 1450:** 4-port RS-232/422/485 USB-to-serial converter
- UPort™ 1450I:** 4-port RS-232/422/485 USB-to-serial converter with 2 KV isolation protection

#### Optional Accessories (can be purchased separately)

- Mini DB9F-to-TB adaptor:** DB9 female to terminal block adaptor for RS-422/485 applications
- Magnet Accessory:** Magnets for attaching the UPort™ 1400 to the PC's housing
- Power Adaptor:** Available for the UPort 1410 (if the USB port does not provide enough power)

#### Package Checklist

- UPort™ 1400 USB-to-serial converter
- 1 mini DB9 female to terminal block adaptor (UPort™ 1450 and 1450I only)
- Power adaptor (UPort™ 1450 and 1450I only)
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card