UPort™ 1150/1150I

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

UPort™ 1150

UPort™ 1150I

> Compatible with USB 2.0
> 12 Mbps USB data rate
> Software selectable RS-232, RS-422, 4-wire RS-485, and 2-wire RS-485
> Certified drivers provided for Windows (including Vista), WinCE 5.0, and Linux
> 15 KV ESD protection for all serial ports
> 2 KV optical isolation protection (UPort™ 1150I)
> Full modem status LEDs for UPort™ 1150I

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™ 1150/1150I USB-to-serial converters allow you to connect 1 RS-232/422/485 device to your laptop or workstation through the USB (Universal Serial Bus) port. These plug & play USB solutions are compatible with both new and legacy RS-232/422/485 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.

: COM Port Numbers Displayed in Windows System Tray

When using a UPort™ 1150 or UPort™ 1150I to connect a serial device to your PC, it may be necessary to determine the COM port number assigned to the serial device. A new tool provided by Moxa gives engineers a handy means of determining the COM port number of the device. When the UPort™ is plugged into your computer's USB port, a UPort™ icon will be placed in the Windows System Tray located in the lower right corner of the desktop. Simply position the cursor over the UPort™ icon, and an information window showing the COM port number will pop up. When two or more UPort™ converters are connected to the same computer, the pop-up window will show the COM numbers for all of the converters.

: Specifications

USB Interface
Compliance: USB 1.0/1.1 compliant, USB 2.0 compatible
Connector:
UPort™ 1150: USB type A
UPort™ 1150I: USB type B
Speed: 12 Mbps (Full-Speed USB)

Serial Interface
Number of Ports: 1
Serial Standards: RS-232/422/485
Connector: DB9 male

Serial Line Protection
ESD Protection: 15 KV embedded
Optical Isolation Protection: 2 KV (UPort™ 1150I 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: 64 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), WinCE 5.0, Linux 2.6 x86/x64

Physical Characteristics

Housing:
UPort™ 1150: ABS + PC
UPort™ 1150I: SECC sheet metal (1 mm), IP30 protection

Weight:
Product only:
UPort™ 1150: 85 g (0.19 lb)
UPort™ 1150I: 71 g (0.16 lb)
Packaged:
UPort™ 1150: 195 g (0.43 lb)
UPort™ 1150I: 181 g (0.40 lb)

Dimensions:
UPort™ 1150: 37.5 x 60 x 20.5 mm (1.48 x 2.36 x 0.81 in)
UPort™ 1150I: 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in)

Environmental Limits

Operating Temperature: 0 to 55°C (32 to 131°F)

Operating Humidity: 5 to 95% RH

Storage Temperature: -20 to 70°C (-4 to 158°F)

Regulatory Approvals: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC-61000-4-6, IEC 61000-4-8, IEC-61000-4-11, FCC Part 15 Class B

Power Requirements

Power Consumption:
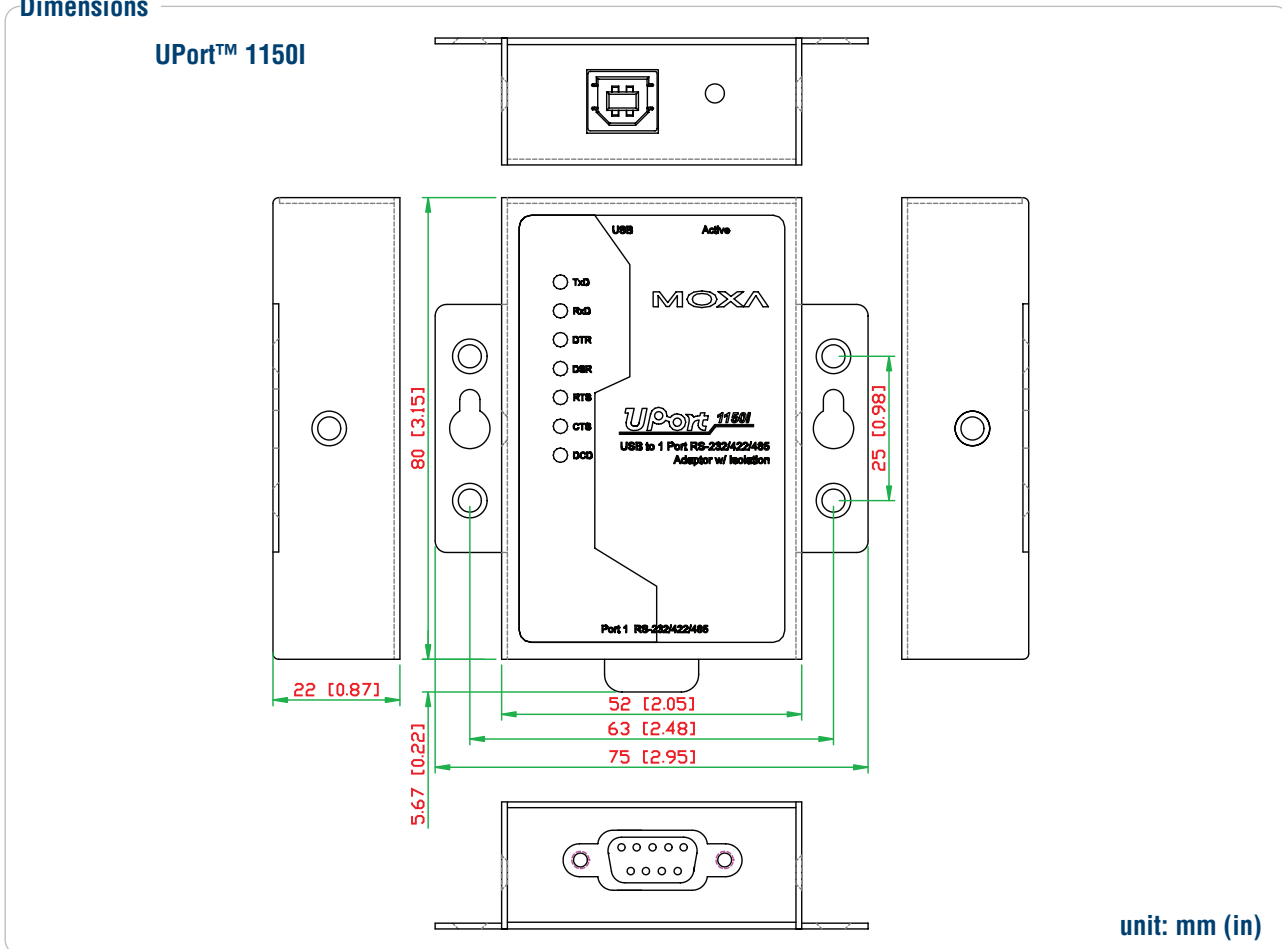UPort™ 1150: 77 mA @ 5 VDC
UPort™ 1150I: 260 mA @ 5 VDC

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

UPort™ 1150I

unit: mm (in)

⋮ Ordering Information

Available Models

UPort™ 1150: 1-port RS-232/422/485 USB-to-serial converter

UPort™ 1150I: 1-port RS-232/422/485 USB-to-serial converter with 2 KV optical isolation protection

Package Checklist

- UPort™ 1150 or 1150I USB-to-serial converter
- 1 mini DB9 female to terminal block adaptor
- Velcro lock-down strap for the USB cable
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card

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USB Connectivity > UPort™ 1150/1150I