

# UPort® 1150I

## 1-port RS-232/422/485 USB-to-serial converter with 2 KV isolation



- > Compatible with USB 2.0
- > 12 Mbps USB data rate
- > 15N high retention USB type B connector
- > Software selectable RS-232, RS-422, 4-wire RS-485, and 2-wire RS-485
- > Drivers provided for Windows, WinCE, and Linux
- > 15 KV ESD protection for all serial ports
- > 2 KV optical isolation protection
- > Full modem status LEDs



### : Overview

The UPort® 1150I is a USB-to-serial converter with one 3-in-1 RS-232/422/485 serial port, transmission speed up to 921.6 Kbps, and 15 KV ESD protection. For industrial and commercial applications that require enhanced reliability, it is also equipped with 2 KV DC optical isolation protection, providing PCs with both COM port expansion and

protection from potentially damaging electrical spikes. Adjustable RS-485 pull high/low resistors are built in for daisy-chained RS-485 networks, allowing engineers to connect to any serial device quickly and easily.

### : Typical Application—Mini Testers

Many engineers use a combination of USB-to-serial converter plus mini tester to check serial device connections during routine inspections. However, mini testers are inconvenient to use, particularly when you need to connect directly through a device's DB9 connector, and purchasing mini testers for all inspectors in a factory increases the overall operating expense. To get around these problems, Moxa designed the UPort® 1150I, which is an external USB-to-serial

converter with 1 RS-232/422/485 DB9 connector and a built-in mini tester. The UPort® 1150I has the following features:

- USB 2.0 compatibility
- RS-232 and RS-422/485 interfaces
- Built-in mini tester function
- Built-in modem status LED indicators for easy diagnosis
- Competitive pricing

### : Specifications

#### USB Interface

**Compliance:** USB 1.0/1.1 compliant, USB 2.0 compatible

**Connector:** 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:** 2 KV

#### 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

**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

**RS-485 Data Direction:** ADDC® (Automatic Data Direction Control)

#### Driver Support

**Operating Systems:** Windows 9X/ME/2000, Windows XP/2003/

Vista/2008/7 x86/x64, WinCE 5.0/6.0, Linux 2.4.x, 2.6.x, 3.0.x

**Note:** Please refer to Moxa's website for the latest driver support information.

#### Physical Characteristics

**Housing:** SECC sheet metal (1 mm)

**Weight:**

Product only: 75 g (0.65 lb)

Packaged: 320 g (0.72 lb)

**Dimensions:** 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)

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

**Ambient Relative Humidity:** 5 to 95% (non-condensing)

**Standards and Certifications**

**Safety:** UL 60950-1

**EMC:** CE, FCC

**EMI:** EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class B

**EMS:** EN 55024, 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

**Green Product:** RoHS, CRoHS, WEEE

**Power Requirements**

**Power Consumption:** 260 mA @ 5 VDC

**MTBF** (mean time between failures)

**Time:** 1,949,025 hrs

**Database:** Telcordia (Bellcore), GB

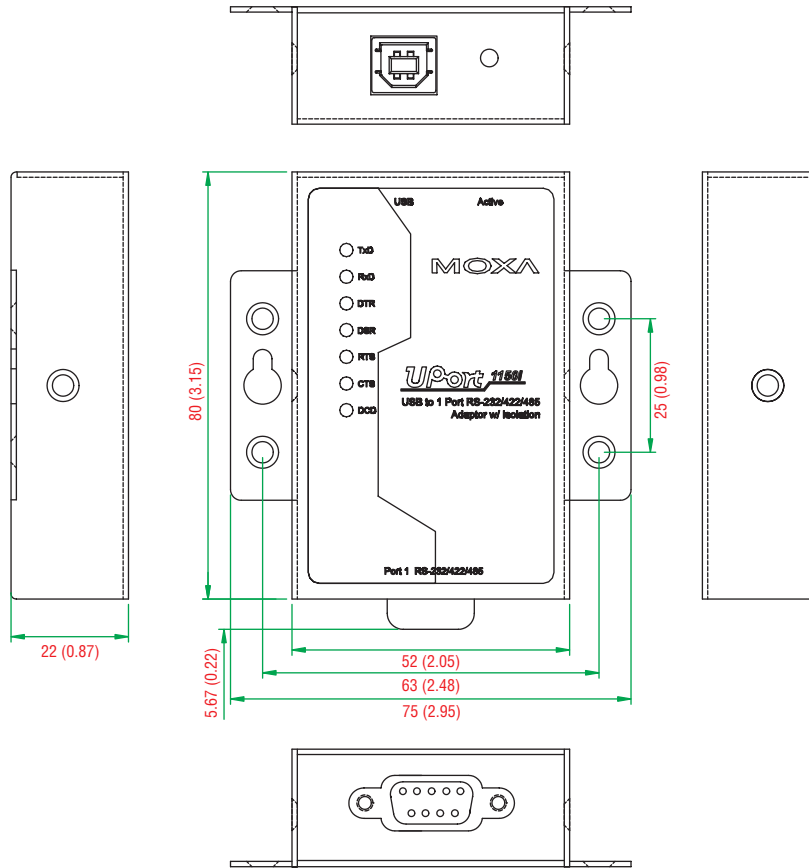
**Warranty**

**Warranty Period:** 5 years

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

**Dimensions**

Unit: mm (inch)



**Ordering Information**

**Available Models**

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

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

**DK35A:** Mounting kit for 35-mm DIN-Rail

**Mini DB9F-to-TB Adaptor:** DB9 female to terminal block adaptor for RS-422/485 applications

**Package Checklist**

- 1 UPort 1150I USB-to-serial converter
- USB-IF certified cable
- 1 mini DB9 female to terminal block adaptor
- Velcro lock-down strap for the USB cable
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card