

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 electrical isolation
- > 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 electrical isolation, 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

Electrical 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)

Operating Systems

Windows Real COM Drivers: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1 (x86/x64), Windows 2012 (x64), Windows Embedded CE 5.0/6.0

Android Driver

Linux Real TTY Drivers: Linux 2.4.x, 2.6.x, 3.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)
Altitude: Up to 2000 m
Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

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

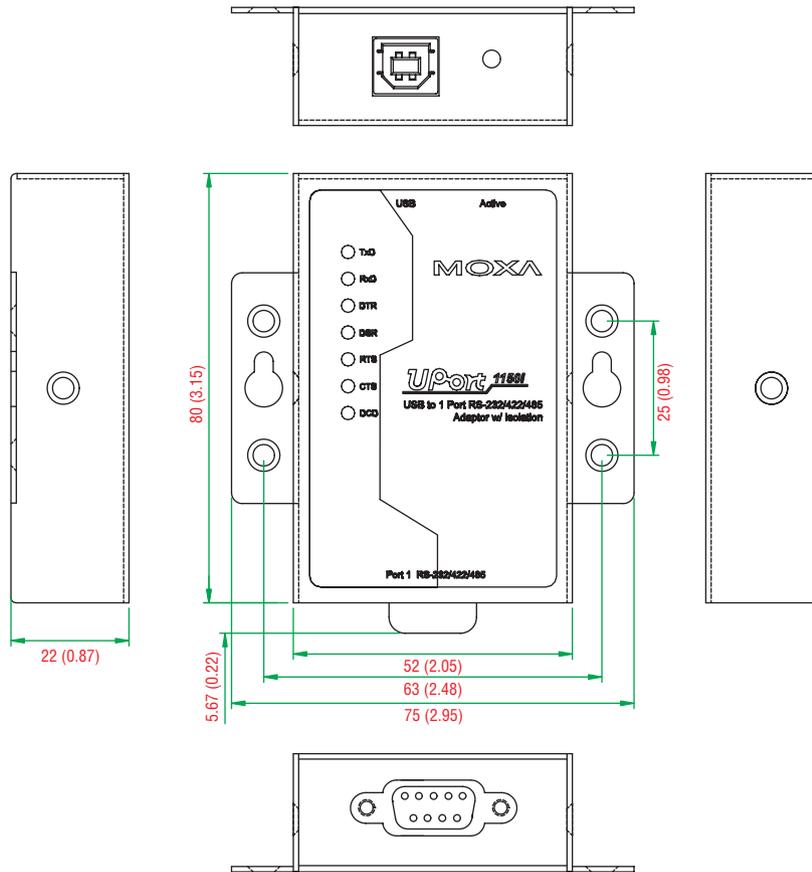
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

Available Models

UPort 1150I: 1-port RS-232/422/485 USB-to-serial converter with 2 kV electrical 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