

UPort® 1100 Series (cable-type)

1-port RS-232, RS-422/485, and RS-232/422/485 USB-to-serial converters



- > Compatible with USB 2.0
- > 12 Mbps USB data rate
- > 921.6 Kbps maximum baudrate for super fast data transmission
- > Drivers provided for Windows, WinCE, and Linux
- > Mini DB9 female to terminal block adaptor for easy wiring
- > LEDs for indicating USB and TxD/RxD activity
- > 15 KV ESD protection for all serial ports
- > 2 KV optical isolation protection (UPort 1130I only)



Overview

The UPort® 1100 series USB-to-serial converters are the perfect accessory for laptop computers that do not have a serial port, and are essential for engineers who need to connect different serial devices in the field or separate interface converters for devices without a standard COM port or DB9 connector. The UPort® 1110 converts from

USB to RS-232, the UPort® 1130/1130I from USB to RS-422/485, and the UPort® 1150 from USB to RS-232/422/485. All products are compatible with new and legacy serial devices, and can be used with mobile, instrumentation, and point-of-sale applications.

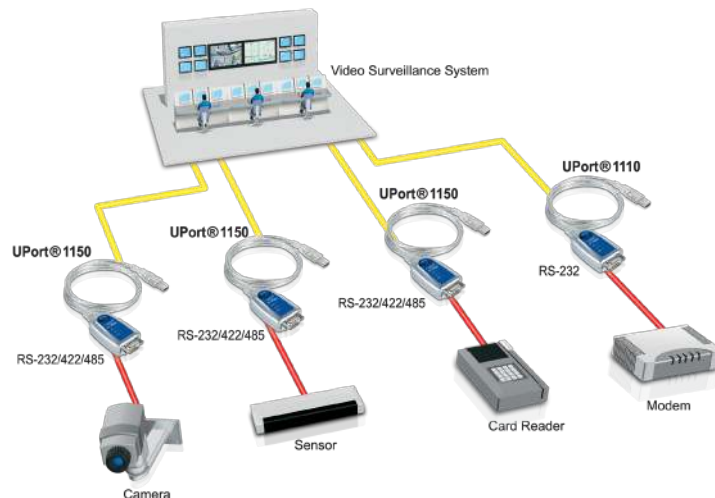
Typical Application—Surveillance Monitoring System

The most basic video surveillance setup is a single camera connected directly to a monitor and recording device. However, many businesses require video surveillance on a larger scale, which often requires a dedicated management system. These management systems are unable to include every possible type of device port, and for this reason, converters are often necessary when attaching different devices. A client that designs video surveillance systems needed USB-to-serial converters to connect devices to the management system. Their system needed to be able to connect to serial devices such as card readers, modems, video cameras, and sensors. Moxa's UPort® 1110 and UPort® 1150 USB-to-serial converters, which provide 1 RS-232 or RS-232/422/485 port for connecting devices to a PC without

needing to open the computer's chassis to install a board, fit the bill. The UPort® 1110/1150 have the following features:

- USB 2.0 compatibility
- RS-232 or RS-422/485 interface
- Stability and reliability
- Cost-effectiveness
- Plug-and-play ability
- Easy to use

In addition, a special driver allows the UPort® 1110/1150 to remember the original COM port number when the UPort® is unplugged and then re-plugged into a different USB port.



Specifications

USB Interface

Compliance: USB 1.0/1.1 compliant, USB 2.0 compatible

Connector: USB type A

Speed: 12 Mbps (Full-Speed USB)

Serial Interface

Number of Ports: 1

Serial Standards:

UPort 1110: RS-232

UPort 1130/1130I: RS-422/485

UPort 1150: RS-232/422/485

Connector: DB9 male

Serial Line Protection

ESD Protection: 15 KV embedded

Optical Isolation: 2 KV (UPort 1130I 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

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, Linux 2.6 x86/x64

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

Physical Characteristics

Housing: ABS + PC

Weight:

Product only: 65 g (0.14 lb)

Packaged: 200 g (0.44 lb)

Dimensions: 38.4 x 60 x 20 mm (1.51 x 2.36 x 0.79 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

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:

UPort 1110: 30 mA @ 5 VDC

UPort 1130: 60 mA @ 5 VDC

UPort 1130I: 65 mA @ 5 VDC

UPort 1150: 77 mA @ 5 VDC

MTBF (mean time between failures)

Time: 1,949,025 hrs

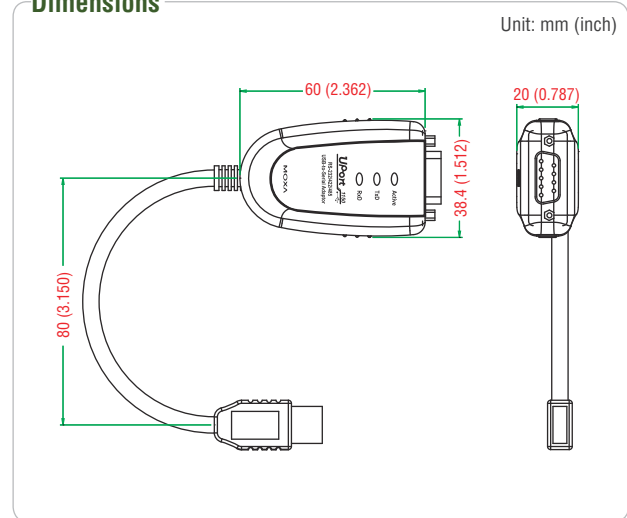
Database: Telcordia (Bellcore), GB

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions



Ordering Information

Available Models

UPort 1110: 1-port RS-232 USB-to-serial converter

UPort 1130: 1-port RS-422/485 USB-to-serial converter

UPort 1130I: 1-port RS-422/485 USB-to-serial converter with 2 KV optical isolation

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

Optional Accessories (can be purchased separately)

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

Package Checklist

- 1 UPort 1110 or 1130 or 1130I or 1150 USB-to-serial converter
- 1 mini DB9 female to terminal block adaptor (UPort 1130, 1130I, and 1150 only)
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card