

UPort® 1100 Series

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



Terminal Block Adaptor for UPort® 1130/1130I/1150/1150I

- > 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 adapter for easy wiring
- > LEDs for indicating USB and TxD/RxD activity
- > 2 kV electrical isolation (UPort 1130I and 1150I)



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® 1150/1150I 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.

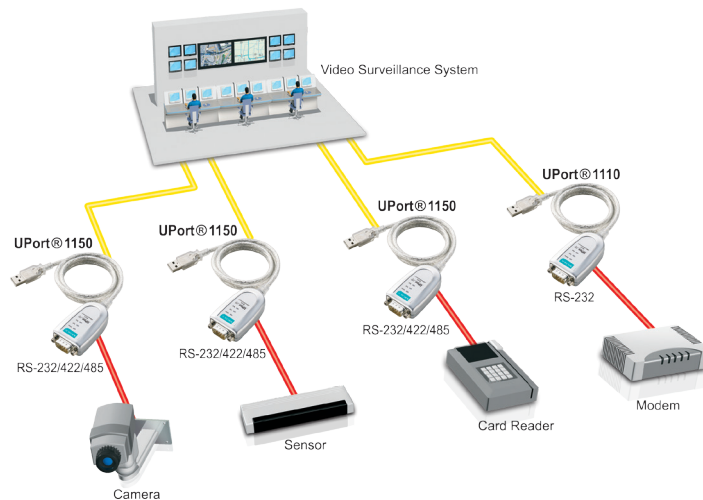
Typical Application—Surveillance Monitoring System

The most basic video surveillance setup consists of a single camera connected directly to a monitor and recording device. However, many businesses require video surveillance on a larger scale requiring a dedicated management system. Existing management systems often lack device-port versatility, making converters a necessity when connecting different devices. Management systems needing USB-to-serial converters for serial devices such as card readers, modems, video cameras, and sensors, now have a simple solution. Moxa's UPort® 1100 converters provide plug-and-play serial device connectivity without having to install new adapter boards, which usually requires opening of computer/server chassis. Also, a unique

driver allows the UPort® 1100 to retain COM port numbers when they have been unplugged and then reconnected again, even into a new USB port.

UPort® 1100 convenient characteristics include:

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



Specifications

USB Interface

Compliance: USB 1.0/1.1 compliant, USB 2.0 compatible

Connector:

USB type A: UPort 1110/1130/1130I/1150

USB type B: UPort 1150I

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 1150/1150I: RS-232/422/485

Connector: DB9 male

Electrical Isolation: 2 kV (UPort 1130I and 1150I)

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

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:

UPort 1110/1130/1130I/1150: ABS + PC

UPort 1150I: Metal

Weight:

UPort 1110/1130/1130I/1150: 60 g (0.13 lb)

UPort 1150I: 80 g (0.17 lb)

Dimensions:

UPort 1110/1130/1130I/1150: 37.5 x 20.5 x 60 mm (L x W x H)

UPort 1150I: 52 x 80 x 22 mm (L x W x H)

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

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

UPort 1150I: 260 mA @ 5 VDC

MTBF (mean time between failures)

Time: 1,949,025 hrs

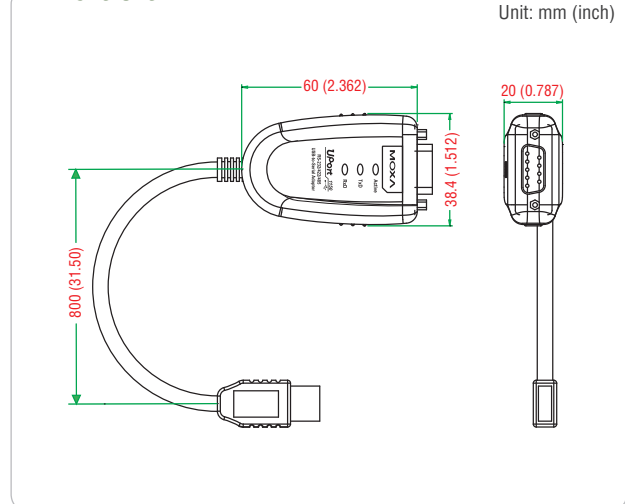
Database: Telcordia (Bellcore), GB

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions



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 electrical isolation

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 electrical isolation

Optional Accessories (can be purchased separately)

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

Package Checklist

- 1 UPort 1100 USB-to-serial converter
- 1 mini DB9 female to terminal block adapter (UPort 1130, 1130I, 1150, and 1150I only)
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card