

# 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.

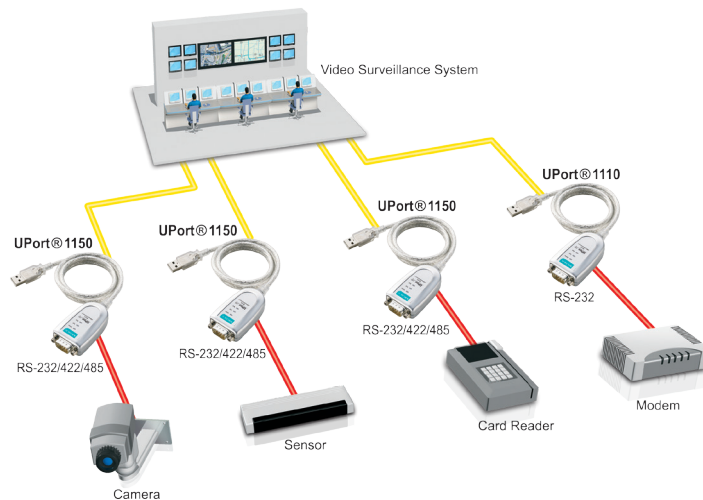
## Typical Application—Surveillance Monitoring System

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

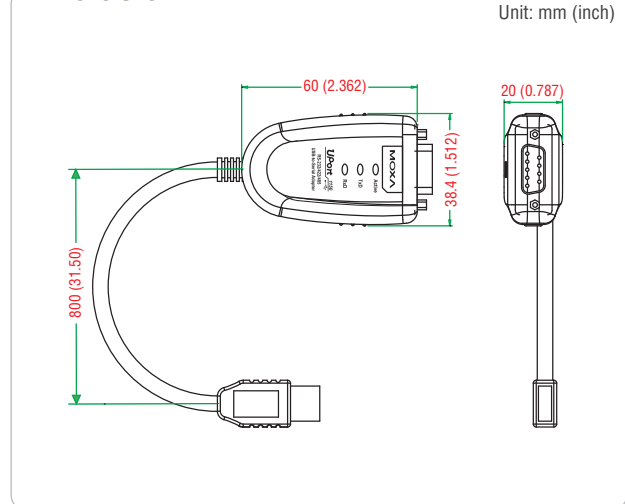
**Database:** Telcordia (Bellcore), GB

### Warranty

**Warranty Period:** 5 years

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