**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](image)

- 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

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**Overview**

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**Video Surveillance System**

- **Camera**
- **Sensor**
- **Card Reader**
- **Modem**

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**Video Surveillance System**

- **Camera**
- **Sensor**
- **Card Reader**
- **Modem**
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-(B), RxD+(A), RxD-(A), GND
- RS-485-4w: Data+(B), Data-(A), GND
- RS-485-2w: Data+(B), Data-(A), GND
- 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

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
- EN: 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 61000-4-8, 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
- Unit: mm (inch)

Available Models
- UPort 1110: 1-port RS-232 USB-to-seriial converter
- UPort 1130: 1-port RS-422/485 USB-to-seriial converter
- UPort 1130I: 1-port RS-422/485 USB-to-seriial converter with 2 kV electrical isolation
- UPort 1150: 1-port RS-232/422/485 USB-to-seriial converter
- UPort 1150I: 1-port RS-232/422/485 USB-to-seriial 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
- 1 UPort 1100 USB-to-seriial 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