

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



### Features and Benefits

- 921.6 kbps maximum baudrate for fast data transmission
- Drivers provided for Windows, macOS, Linux, and WinCE
- Virtual machine supported for VMWare Fusion/ESXi and Parallels
- Mini-DB9-female-to-terminal-block adapter for easy wiring
- LEDs for indicating USB and TxD/RxD activity
- 2 kV isolation protection (for “-I” models)

### Certifications



## Introduction

The UPort® 1100 Series of USB-to-serial converters is the perfect accessory for laptop or workstation computers that do not have a serial port. They 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® 1100 Series converts from USB to RS-232/422/485. All products are compatible with legacy serial devices, and can be used with instrumentation and point-of-sale applications.

## Specifications

### USB Interface

|               |                                                                   |
|---------------|-------------------------------------------------------------------|
| Speed         | 12 Mbps                                                           |
| USB Connector | UPort 1110/1130/1130I/1150: USB Type A<br>UPort 1150I: USB Type B |
| USB Standards | USB 1.0/1.1 compliant, USB 2.0 compatible                         |

### Serial Interface

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| No. of Ports     | 1                                                                                                  |
| Connector        | DB9 male                                                                                           |
| Baudrate         | 50 bps to 921.6 kbps                                                                               |
| Data Bits        | 5, 6, 7, 8                                                                                         |
| Stop Bits        | 1, 1.5, 2                                                                                          |
| Parity           | None, Even, Odd, Space, Mark                                                                       |
| Flow Control     | None<br>RTS/CTS<br>XON/XOFF                                                                        |
| Isolation        | UPort 1130I/1150I: 2kV                                                                             |
| Serial Standards | UPort 1110: RS-232<br>UPort 1130/1130I: RS-422, RS-485<br>UPort 1150/1150I: RS-232, RS-422, RS-485 |

## Serial Signals

|           |                                        |
|-----------|----------------------------------------|
| RS-232    | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND |
| RS-422    | Tx+, Tx-, Rx+, Rx-, GND                |
| RS-485-4w | Tx+, Tx-, Rx+, Rx-, GND                |
| RS-485-2w | Data+, Data-, GND                      |

## Serial Software Features

|                             |                                                                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Windows Drivers             | Windows 11/10/8.1/8/7/Vista/Me/XP<br>Windows Server 2022/2019/2016/2012 R2/2012/2008 R2/2008/2003/2000/NT                                                                                             |
| Linux Drivers               | Linux kernel 6.x/5.x/4.x/3.x/2.6.x/2.4.x                                                                                                                                                              |
| Mac Drivers                 | macOS 10.12 to 10.15                                                                                                                                                                                  |
| Arm®-based Platform Support | Linux kernel 5.x/4.x                                                                                                                                                                                  |
| Virtual Machine             | VMware Fusion (Windows on macOS 10.12 to 10.15)<br>VMware ESXi (Windows 7 to 10, Server 2008 R2 to 2019)<br>VMware ESXi (Linux kernel 4 and 5)<br>Parallels Desktop (Windows on macOS 10.12 to 10.15) |
| Android API                 | Android 3.1.x and later                                                                                                                                                                               |

## Power Parameters

|               |                                                                                                          |
|---------------|----------------------------------------------------------------------------------------------------------|
| Input Voltage | 5 VDC                                                                                                    |
| Input Current | UPort 1110: 30 mA<br>UPort 1130: 60 mA<br>UPort 1130I: 65 mA<br>UPort 1150: 77 mA<br>UPort 1150I: 260 mA |

## Physical Characteristics

|            |                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Housing    | UPort 1110/1130/1130I/1150: ABS + Polycarbonate<br>UPort 1150I: Metal                                                                 |
| Dimensions | UPort 1110/1130/1130I/1150:<br>37.5 x 20.5 x 60 mm (1.48 x 0.81 x 2.36 in)<br>UPort 1150I:<br>52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) |
| Weight     | UPort 1110/1130/1130I/1150: 65 g (0.14 lb)<br>UPort 1150I: 75 g (0.16 lb)                                                             |

## Environmental Limits

|                                        |                           |
|----------------------------------------|---------------------------|
| Operating Temperature                  | 0 to 55°C (32 to 131°F)   |
| Storage Temperature (package included) | -20 to 70°C (-4 to 158°F) |
| Ambient Relative Humidity              | 5 to 95% (non-condensing) |

## Standards and Certifications

|     |                                |
|-----|--------------------------------|
| EMC | EN 55032/35                    |
| EMI | CISPR 32, FCC Part 15B Class 1 |

|        |                                                                                                                                                                                                                                                   |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMS    | IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV<br>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m<br>IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV<br>IEC 61000-4-5 Surge: Power: 2 kV<br>IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m<br>IEC 61000-4-8 PFMF |
| Safety | UPort 1150I: UL 60950-1<br>UL 60950-1 (UPort 1150I)                                                                                                                                                                                               |

## Declaration

|               |                   |
|---------------|-------------------|
| Green Product | RoHS, CRoHS, WEEE |
|---------------|-------------------|

## MTBF

|           |                                           |
|-----------|-------------------------------------------|
| Time      | 1,949,025 hrs                             |
| Standards | MIL-HDBK-217F<br>Telcordia (Bellcore), GB |

## Warranty

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| Warranty Period | 5 years                                                              |
| Details         | See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a> |

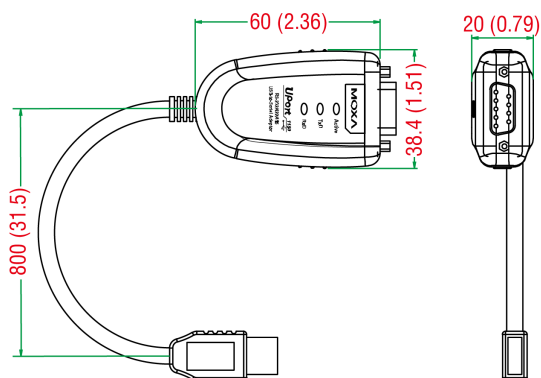
## Package Contents

|               |                                                     |
|---------------|-----------------------------------------------------|
| Device        | 1 x UPort 1100 Series USB-to-serial converter       |
| Cable         | UPort 1150I: 1 x USB type A male to USB type B male |
| Connectors    | 1 x Mini DB9F-to-TB (UPort 1130/1150 Models)        |
| Documentation | 1 x quick installation guide<br>1 x warranty card   |

## Dimensions

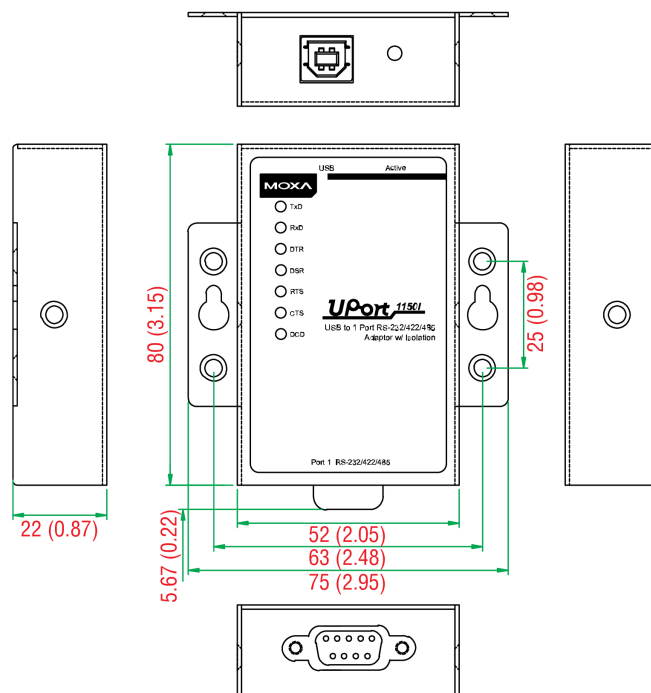
### UPort 1110/1130/1130I/1150

Unit: mm (inch)



### UPort 1150I

Unit: mm (inch)



## Ordering Information

| Model Name  | USB Interface | Serial Standards | No. of Serial Ports | Isolation | Housing Material | Operating Temp. |
|-------------|---------------|------------------|---------------------|-----------|------------------|-----------------|
| UPort 1110  | USB 1.1       | RS-232           | 1                   | –         | ABS+PC           | 0 to 55°C       |
| UPort 1130  | USB 1.1       | RS-422/485       | 1                   | –         | ABS+PC           | 0 to 55°C       |
| UPort 1130I | USB 1.1       | RS-422/485       | 1                   | 2 kV      | ABS+PC           | 0 to 55°C       |
| UPort 1150  | USB 1.1       | RS-232/422/485   | 1                   | –         | ABS+PC           | 0 to 55°C       |
| UPort 1150I | USB 1.1       | RS-232/422/485   | 1                   | 2 kV      | Metal            | 0 to 55°C       |

## Accessories (sold separately)

### Cables

|                 |                                                              |
|-----------------|--------------------------------------------------------------|
| NP21101         | DB25 male to DB9 female cable for RS-232 transmission, 30 cm |
| CBL-F9M9-20     | DB9 female to DB9 male serial cable, 20 cm                   |
| CBL-F9M9-150    | DB9 female to DB9 male serial cable, 1.5 m                   |
| CBL-RJ45SF9-150 | 8-pin RJ45 to DB9 female serial cable with shielding, 1.5m   |
| CBL-USBA/B-100  | USB Type A to USB Type B cable, 1 m                          |

### Connectors

|                 |                                        |
|-----------------|----------------------------------------|
| Mini DB9F-to-TB | DB9 female to terminal block connector |
| ADP-RJ458P-DB9F | DB9 female to RJ45 connector           |

### Wireless Adapters

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| A-ADP-RJ458P-DB9F-ABC01 | DB9 female to RJ45 connector for the ABC-01 Series |
|-------------------------|----------------------------------------------------|

### Rack-Mounting Kits

|          |                                                                                                             |
|----------|-------------------------------------------------------------------------------------------------------------|
| WK-44-01 | Rack-mounting kit, 2 L-shaped plates, 8 screws, 44 x 57.5 x 1.6 mm<br><br>Applicable Models:<br>UPort 1150I |
|----------|-------------------------------------------------------------------------------------------------------------|

### Wall-Mounting Kits

|          |                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------|
| WK-35-01 | Wall-mounting kit with 2 plates (35 x 44 x 2.5 mm) and 6 screws<br><br>Applicable Models:<br>UPort 1150I |
|----------|----------------------------------------------------------------------------------------------------------|

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