

# UPort 1000 Series

1 to 16-port RS-232, RS-422/485, and RS-232/422/485 USB-to-serial converters



## Features and Benefits

- Hi-Speed USB 2.0 for up to 480 Mbps USB data transmission rates
- 921.6 kbps maximum baudrate for 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 isolation protection (for “-I” models)

## Certifications



## Introduction

The UPort® 1000 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® 1000 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	UPort 1100 Series: 12 Mbps UPort 1200/1400/1600 Series: 12 Mbps, 480 Mbps
USB Connector	UPort 1110/1130/1130I/1150: USB Type A UPort 1150I/1200/1400/1600 Series: USB Type B
USB Standards	UPort 1100 Series: USB 1.0/1.1 compliant, USB 2.0 compatible UPort 1200/1400/1600 Series: USB 1.1/2.0 compliant

### Serial Interface

No. of Ports	UPort 1100 Series: 1 UPort 1200 Series: 2 UPort 1400 Series: 4 UPort 1600-8 Series: 8 UPort 1600-16 Series: 16
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, RTS/CTS, XON/XOFF

Isolation	UPort 1130I/1150I/1250I/1450I: 2kV
Serial Standards	UPort 1110/1410/1610-8/1610-16: RS-232 UPort 1130/1130I: RS-422, RS-485 UPort 1150/1150I/1250/1250I/1450/1650-8/1650-16: RS-232, RS-422, RS-485
<b>Serial Signals</b>	
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
<b>Power Parameters</b>	
Input Voltage	UPort 1100/1250/1410/1450: 5 VDC <sup>1</sup> UPort 1250I/1400/1600-8 Series: 12 to 48 VDC UPort 1600-16 Series: 100 to 240 VAC
Input Current	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 UPort 1250: 360 mA @ 5 VDC UPort 1250I: 200 mA @ 12 VDC UPort 1410/1450: 260 mA @ 12 VDC UPort 1450I: 360 mA @ 12 VDC UPort 1610-8/1650-8: 580 mA @ 12 VDC UPort 1600-16 Series: 220 mA @ 100 VAC
<b>Physical Characteristics</b>	
Housing	UPort 1110/1130/1130I/1150: ABS + Polycarbonate UPort 1150I/1200/1400/1600 Series: Metal
Dimensions	UPort 1110/1130/1130I/1150: 37.5 x 20.5 x 60 mm (1.48 x 0.81 x 2.36 in) UPort 1150I: 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) UPort 1200 Series: 77 x 26 x 111 mm (3.03 x 1.02 x 4.37 in) UPort 1400 Series: 204 x 30 x 125 mm (8.03 x 1.18 x 4.92 in) UPort 1600-8 Series: 204 x 44 x 125 mm (8.03 x 1.73 x 4.92 in) UPort 1600-16 Series: 440 x 45.5 x 198.1 mm (17.32 x 1.79 x 7.80 in)
Weight	<b>Packaged:</b> UPort 1110/1130/1130I/1150: 200 g (0.44 lb) UPort 1150I: 320 g (0.72 lb) UPort 1250: 370 g (0.82 lb) UPort 1250I: 680 g (1.5 lb) UPort 1400: 1,345 g (2.96 lb) UPort 1600-8: 1,435 g (3.16 lb) UPort 1600-16: 3,485 g (7.68 lb)  <b>Product only:</b> UPort 1110/1130/1130I/1150: 65 g (0.14 lb) UPort 1150I: 75 g (0.16 lb) UPort 1250/1250I: 180 g (0.40 lb) UPort 1400: 720 g (1.59 lb) UPort 1600-8: 835 g (1.84 lb) UPort 1600-16: 2,475 g (5.45 lb)

1. UPort 1410/1450 Series: 5 V for USB port power, 12 V for external power adapter

## Environmental Limits

Operating Temperature	0 to 55°C (32 to 131°F)
Storage Temperature (package included)	UPort 1100 Series: -20 to 70°C (-4 to 158°F) UPort 1200/1400/1600 Series: -20 to 75°C (-4 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

## Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class 1
EMS	UPort 1100 Series: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m IEC 61000-4-8 PFMF  UPort 1200/1400/1600 Series: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV IEC 61000-4-5 Surge: Power: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m IEC 61000-4-8 PFMF
Safety	UPort 1250/1250I/1410/1450/1450I/1610-8/1610-16/1650-8/1650-16: UL 60950-1

## Declaration

Green Product	RoHS, CRoHS, WEEE
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## MTBF

Time	UPort 1100 Series: 1,949,025 hrs UPort 1200 Series: 563,179 hrs UPort 1410: 394,441 hrs UPort 1450/1450I: 546,770 hrs UPort 1610-8: 208,413 hrs UPort 1650-8: 186,567 hrs UPort 1610-16: 138,704 hrs UPort 1650-16: 120,001 hrs
Standards	MIL-HDBK-217F Telcordia (Bellcore), GB

## Warranty

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

## Package Contents

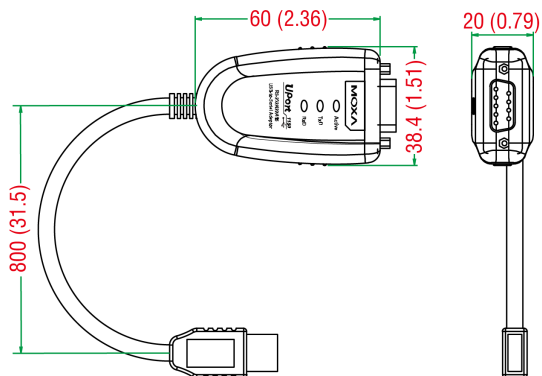
Device	1 x UPort 1000 Series USB-to-serial converter
Installation Kit	1 x rack-mounting ear (UPort 1600-16 Series) 1 x wall-mounting kit (UPort 1400/1600-8 Series)
Cable	1 x USB type A male to USB type B male (UPort 1150I/UPort 1200/1400/1600 Series)
Connectors	1 x Mini DB9F-to-TB (UPort 1130/1150/1250/1450/1650 Series)

Power Supply	1 x power adapter, universal (UPort 1250I/1450/1450I/1600-8) 1 x power cord (UPort 1600-16)
Documentation	1 x quick installation guide 1 x warranty card

## Dimensions

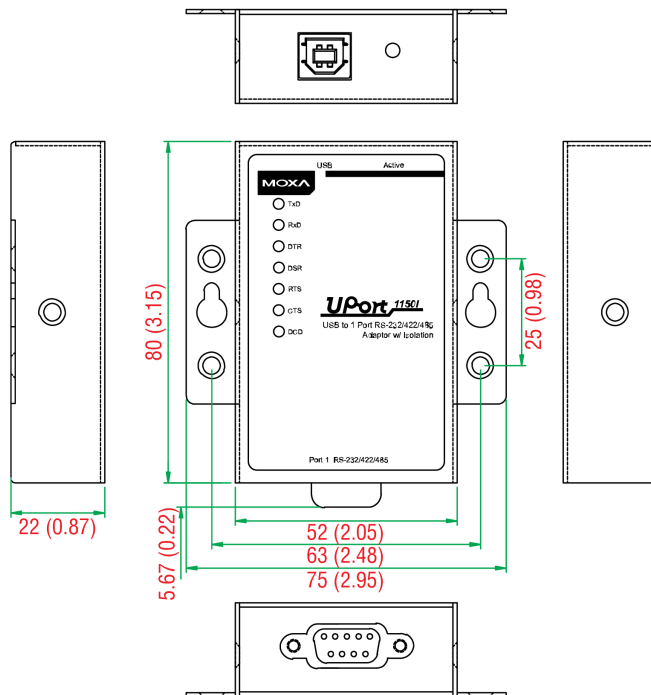
### UPort 1110/1130/1150

Unit: mm (inch)



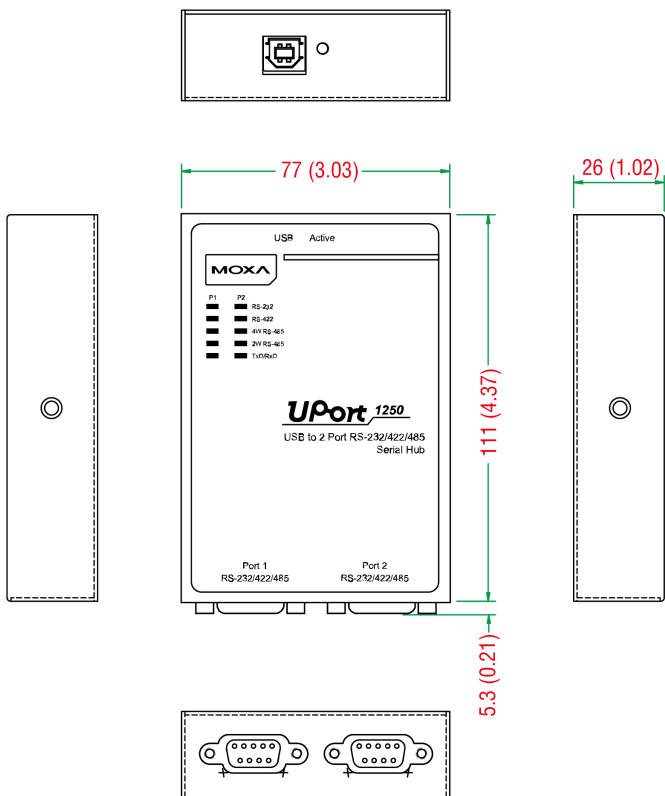
### UPort 1130I/1150I

Unit: mm (inch)



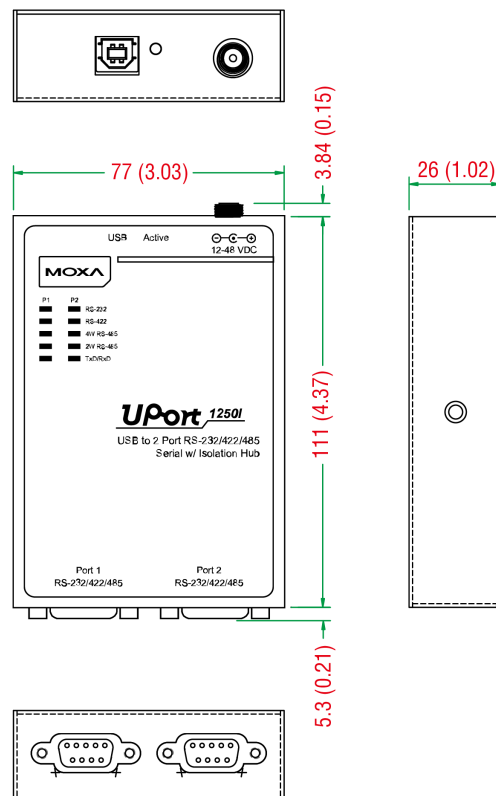
### UPort 1250

Unit: mm (inch)



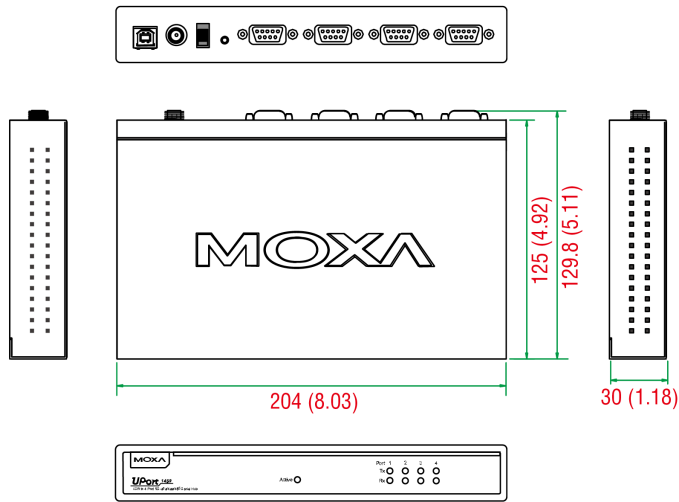
### UPort 1250I

Unit: mm (inch)



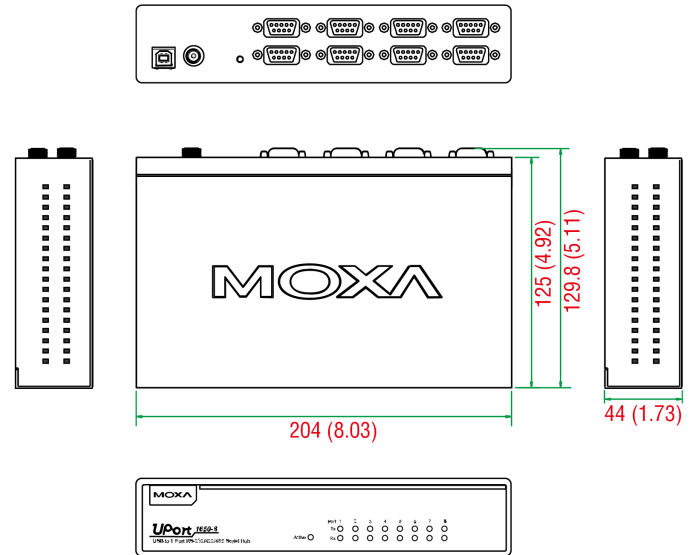
## UPort 1410/1450/1450I

Unit: mm (inch)



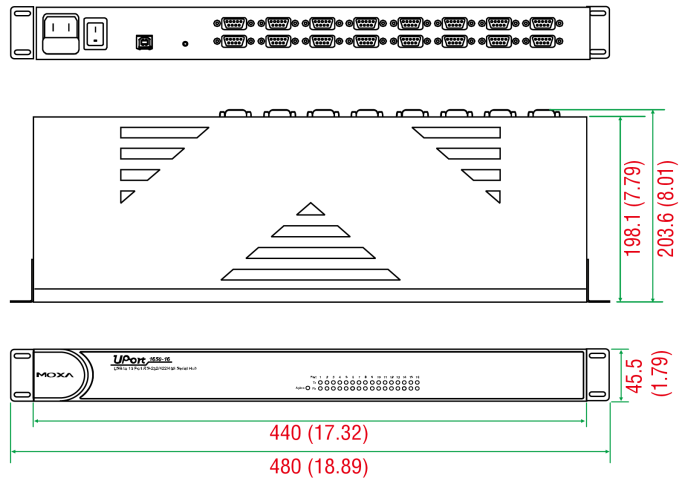
## UPort 1610-8/1650-8

Unit: mm (inch)



## UPort 1610-16/1650-16

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
UPort 1250	USB 2.0	RS-232/422/485	2	-	Metal	0 to 55°C
UPort 1250I	USB 2.0	RS-232/422/485	2	2 kV	Metal	0 to 55°C
UPort 1410	USB 2.0	RS-232	4	-	Metal	0 to 55°C
UPort 1450	USB 2.0	RS-232/422/485	4	-	Metal	0 to 55°C
UPort 1450I	USB 2.0	RS-232/422/485	4	2 kV	Metal	0 to 55°C
UPort 1610-8	USB 2.0	RS-232	8	-	Metal	0 to 55°C
UPort 1650-8	USB 2.0	RS-232/422/485	8	-	Metal	0 to 55°C

Model Name	USB Interface	Serial Standards	No. of Serial Ports	Isolation	Housing Material	Operating Temp.
UPort 1610-16	USB 2.0	RS-232	16	–	Metal	0 to 55°C
UPort 1650-16	USB 2.0	RS-232/422/485	16	–	Metal	0 to 55°C

## Accessories (sold separately)

### Cables

CN20070	10-pin RJ45 to DB9 female serial cable, 1.5 m  Applicable Models: UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8
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	RJ45 to DB9 female serial shielded cable, 1.5 m
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 Adaptors

A-ADP-RJ458P-DB9F-ABC01	DB9 female to RJ45 connector for the ABC-01
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### DIN-Rail Mounting Kits

DK-UP1200	DIN-rail/wall-mounting kit that includes 2 wall-mounting plates with 6 screws (WK-35-02), and 2 DIN-rail plates with 4 screws (DK35A)  Applicable Models: UPort 1250I UPort 1250
DK-UP1400	DIN-rail/wall-mounting kit, 2 plates, 6 screws, and 2 DIN-rail plates, 4 screws  Applicable Models: UPort 1410 UPort 1650-8 UPort 1610-8 UPort 1450I UPort 1450

### Wall-Mounting Kits

WK-35-01	Wall-mounting kit, 2 plates, 6 screws, 35 x 44 x 2.5 mm
WK-51-01	Wall-mounting kit, 2 plates, 6 screws, 51.6 x 67 x 2 mm  Applicable Models: UPort 1250 UPort 1250I

### Rack-Mounting Kits

WK-44-01	Wall-mounting kit, 2 L-shaped plates, 6 screws, 44 x 35 x 2.5 mm  Applicable Models: UPort 1150I
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### Power Adapters

PWR-12125-DT-S2	<p>Desktop power supply (requires power cord), 12 VDC, 1.25 A, 100-240 VAC, 0 to 40°C operating temperature</p> <p>Applicable Models:  UPort 1250  UPort 1250I  UPort 1410  UPort 1450  UPort 1450I  UPort 1610-8  UPort 1650-8</p>
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## Power Cords

PWC-C13AU-3B-183	<p>Power cord with Australian (AU) plug, 1.83 m</p> <p>Applicable Models:  UPort 1610-16  UPort 1650-16</p>
PWC-C13CN-3B-183	<p>Power cord with three-prong China (CN) plug, 1.83 m</p> <p>Applicable Models:  UPort 1610-16  UPort 1650-16</p>
PWC-C13EU-3B-183	<p>Power cord with Continental Europe (EU) plug, 1.83 m</p> <p>Applicable Models:  UPort 1610-16  UPort 1650-16</p>
PWC-C13JP-3B-183	<p>Power cord with Japan (JP) plug, 7A/125V, 1.83 m</p> <p>Applicable Models:  UPort 1610-16  UPort 1650-16</p>
PWC-C13UK-3B-183	<p>Power cord with United Kingdom (UK) plug, 1.83 m</p> <p>Applicable Models:  UPort 1610-16  UPort 1650-16</p>
PWC-C13US-3B-183	<p>Power cord with United States (US) plug, 1.83 m</p> <p>Applicable Models:  UPort 1610-16  UPort 1650-16</p>
PWC-C7AU-2B-183	<p>Power cord with Australian (AU) plug, 2.5A/250V, 1.83 m</p> <p>Applicable Models:  UPort 1250  UPort 1250I  UPort 1410  UPort 1450  UPort 1450I  UPort 1610-8  UPort 1650-8</p>
PWC-C7CN-2B-183	<p>Power cord with two-prong China (CN) plug, 1.83 m</p> <p>Applicable Models:  UPort 1250  UPort 1250I  UPort 1410  UPort 1450  UPort 1450I  UPort 1610-8  UPort 1650-8</p>
PWC-C7EU-2B-183	<p>Power cord with Continental Europe (EU) plug, 2.5A/250V, 1.83 m</p> <p>Applicable Models:  UPort 1250  UPort 1250I  UPort 1410  UPort 1450  UPort 1450I</p>

	<p>UPort 1610-8 UPort 1650-8</p>
PWC-C7JP-2B-183	<p>Power cord with Japan (JP) plug, 7A/125V, 1.83 m</p> <p>Applicable Models: UPort 1250 UPort 1250I UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8</p>
PWC-C7UK-2B-183	<p>Power cord with United Kingdom (UK) plug, 2.5A/250V, 1.83 m</p> <p>Applicable Models: UPort 1250 UPort 1250I UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8</p>
PWC-C7US-2B-183	<p>Power cord with United States (US) plug, 10A/125V, 1.83 m</p> <p>Applicable Models: UPort 1250 UPort 1250I UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8</p>

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