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UPort 1200/1400/1600 Series

2 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
- Real COM and TTY drivers for Windows, Linux, and macOS
- 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® 1200/1400/1600 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® 1200/1400/1600 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, 480 Mbps
USB Connector	USB Type B
USB Standards	USB 1.1/2.0 compliant

Serial Interface	
No. of Ports	UPort 1200 Models: 2 UPort 1400 Models: 4 UPort 1600-8 Models: 8 UPort 1600-16 Models: 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	2 kV (I models)
Serial Standards	UPort 1410/1610-8/1610-16: RS-232 UPort 1250/1250I/1450/1650-8/1650-16: 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/XP/ME/98/95 Windows Server 2022/2019/2016/2012 R2/2012/2008 R2/2008/2003/2000/NT
Linux Drivers	Kernel versions: 6.x, 5.x, 4.x, 3.x, 2.6.x and 2.4.x
Mac Drivers	macOS versions: 10.12 to 10.15, 11.x
Virtual Machine	VMware Fusion (Windows on macOS 10.12 to 11.x) VMWare ESXi (Linux kernel 4) Parallels Desktop (Windows on macOS 10.12 to 11.x)
Arm®-based Platform Support	Linux kernel 5.x / 4.x
Android API	Android 3.1.x and later

Power Parameters

Input Voltage	UPort 1250/1410/1450: 5 VDC[1] UPort 1250I/1400/1600-8 Models: 12 to 48 VDC UPort 1600-16 Models: 100 to 240 VAC
Input Current	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 Models: 220 mA @ 100 VAC

Physical Characteristics

Housing	Metal
Dimensions	UPort 1250/1250I: 77 x 26 x 111 mm (3.03 x 1.02 x 4.37 in) UPort 1410/1450/1450I: 204 x 30 x 125 mm (8.03 x 1.18 x 4.92 in) UPort 1610-8/1650-8: 204 x 44 x 125 mm (8.03 x 1.73 x 4.92 in) UPort 1610-16/1650-16: 440 x 45.5 x 198.1 mm (17.32 x 1.79 x 7.80 in)
Weight	UPort 1250/1250I: 180 g (0.40 lb) UPort 1410/1450/1450I: 720 g (1.59 lb) UPort 1610-8/1650-8: 835 g (1.84 lb) UPort 1610-16/1650-16: 2,475 g (5.45 lb)

Environmental Limits

Storage Temperature (package included)	-20 to 75°C (-4 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Operating Temperature	UPort 1200 Models: 0 to 60°C (32 to 140°F) UPort 1400//1600-8/1600-16 Models: 0 to 55°C (32 to 131°F)

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

Standards and Certifications

EMC	EN 55032/35
EMI	CISPR 32, FCC Part 15B Class A
EMS	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 1200 /1600-16 Models : UL 60950-1 UPort 1400 /1600-8 Models : UL/IEC 62368-1

Declaration

Green Product	RoHS, CRoHS, WEEE

MTBF

Time	UPort 1250/1250I: 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	UPort 1250/1250I/1410/1450/1450I: Telcordia (Bellcore) Standard UPort 1610-8/1650-8/1610-16/1650-16: MIL-HDBK-217F

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

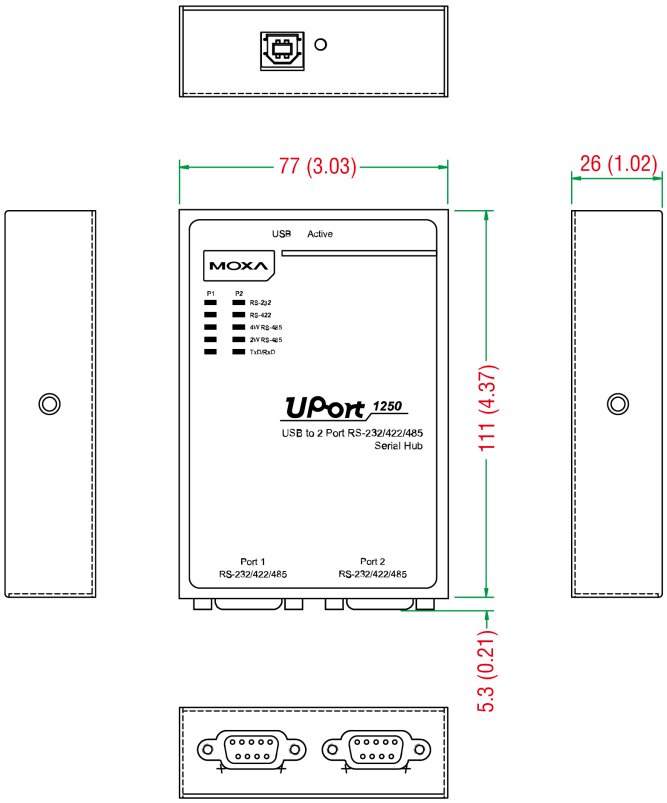
Package Contents

Device	1 x UPort 1200/1400/1600 Series USB-to-serial converter
Cable	1 x USB type A male to USB type B male
Connectors	1 x Mini DB9F-to-TB (UPort 1250/1450/1650 models)
Power Supply	1 x power adapter, universal (UPort 1250I/1450/1450I/1600-8) 1 x power cord (UPort 1600-16)
Installation Kit	1 x rack-mounting ear (UPort 1600-16 models)
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

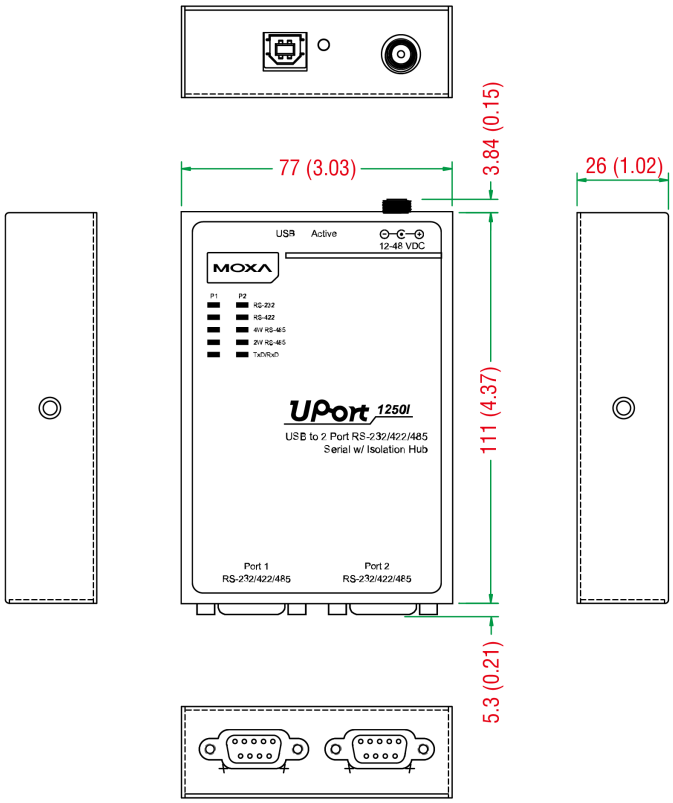
UPort 1250

Unit: mm (inch)



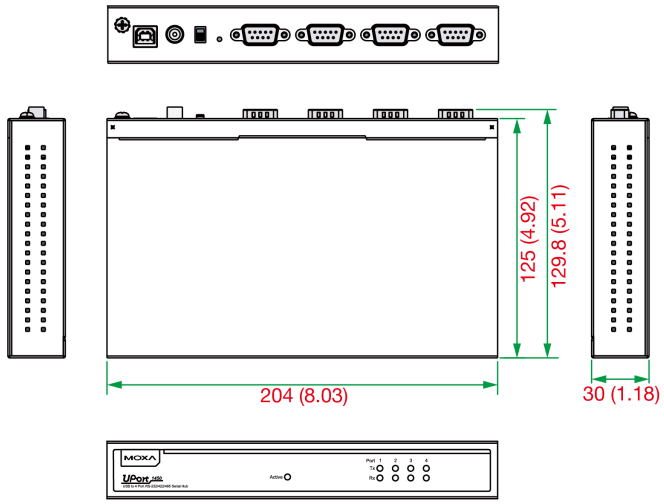
UPort 1250I

Unit: mm (inch)



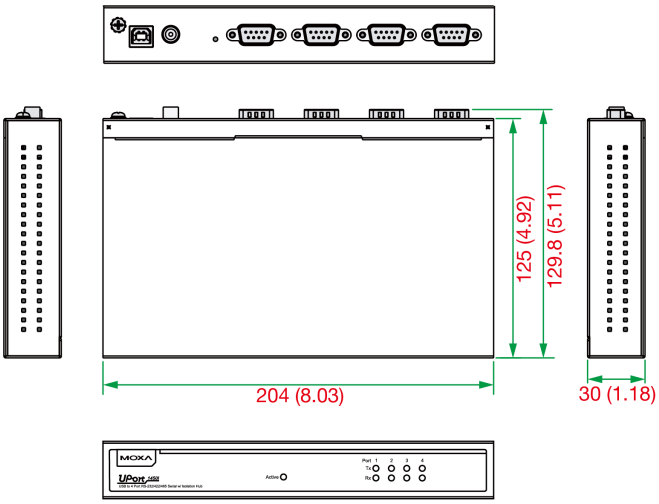
UPort 1410/1450

Unit: mm (inch)



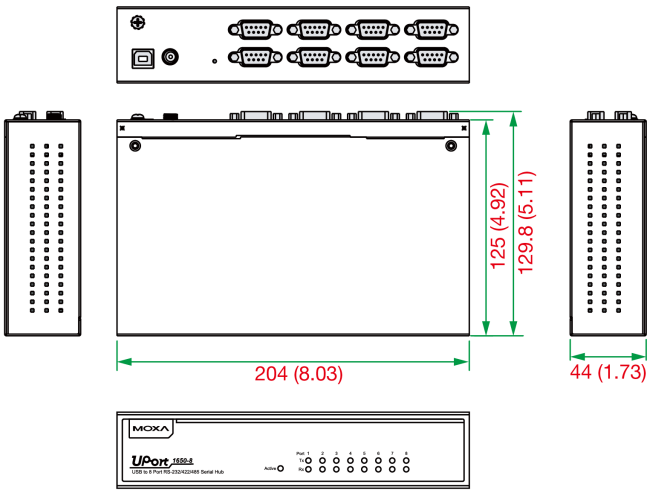
UPort 1450I

Unit: mm (inch)



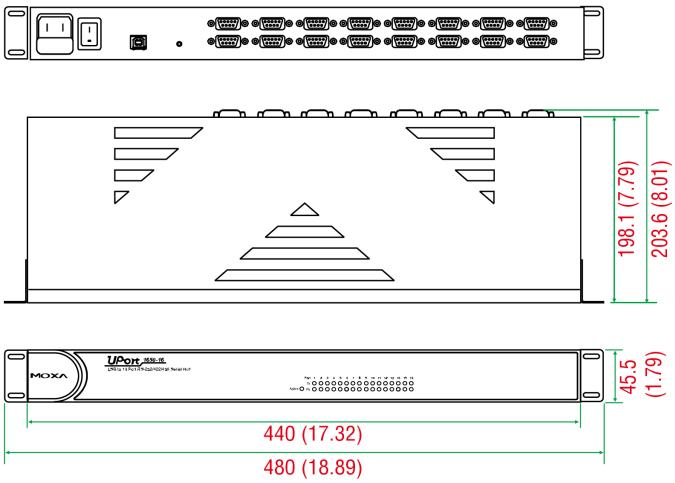
UPort 1610–8/1650–8

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 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
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

CBL-USBA/B-100	USB 2.0 cable, type A-to-type B, 1 m
CN20070	10-pin RJ45 to DB9 female serial cable
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

Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector
ADP-RJ458P-DB9F	DB9 female to RJ45 connector
A-ADP-RJ458P-DB9F-ABC01	DB9 female to RJ45 connector for the ABC-01 Series

Mounting Kits

DK-UP1200	DIN rail (25x48.3 mm) with 2 screws (FMS M3X6) Applicable Models: UPort 1250

	UPort 1250I
DK-UP1400	DIN-rail/wall-mounting kit, 2 plates, 6 screws, and 2 DIN-rail plates, 4 screws Applicable Models: UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8

DIN-Rail Mounting Kits

DK-UP-14168	DIN-rail kit with 2 plates (89 x 19 mm), 6 screws (FMS M3 x 5 mm) for the UPort 1400 (V1.5.0 and after) and 1600-8 (V1.4.0 and after) models Applicable Models: UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8

Wall-Mounting Kits

WK-35-02	Wall-mounting kit with 2 plates (35 x 24 x 1.2 mm) and 6 screws Applicable Models: UPort 1250 UPort 1250I
WK-35-01	Wall-mounting kit with 2 plates (35 x 44 x 2.5 mm) and 6 screws Applicable Models: UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8
WK-UP-14168	Wall-mounting kit with 2 plates (35 x 44 mm), 6 screws (FMS M3 x 4 mm) for the UPort 1400 and 1600-8 models Applicable Models: UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8

Rack-Mounting Kits

WK-45-01	Rack-mounting kit, 2 L-shaped plates, 6 screws, 45 x 57 x 2.5 mm Applicable Models: UPort 1610-16 UPort 1650-16

Power Adapters

PWR-12150-WP-S4	Locking barrel plug with 12 VDC, 1.5 A, 100 to 240 VAC, without plug, 0 to 40°C operating temperature Applicable Models: UPort 1250 UPort 1250I UPort 1410 UPort 1450 UPort 1450I UPort 1610-8 UPort 1650-8

Power Cords

PWC-C13EU-3B-183	Power cord with EU/KR plug, 1.83 m Applicable Models: UPort 1610-16

	UPort 1650-16
PWC-C13US-3B-183	Power cord with US plug, 1.83 m Applicable Models: UPort 1610-16 UPort 1650-16
PWC-C13CN-3B-183	Power cord with three-prong CN plug, 1.83 m Applicable Models: UPort 1610-16 UPort 1650-16
PWC-C13JP-3B-183	Power cord with JP plug plug, 7A/125V, 1.83 m Applicable Models: UPort 1610-16 UPort 1650-16
PWC-C13UK-3B-183	Power cord with UK plug, 1.83 m Applicable Models: UPort 1610-16 UPort 1650-16
PWC-C13AU-3B-183	Power cord with AU plug, 1.83 m Applicable Models: UPort 1610-16 UPort 1650-16

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