UPort 1200/1400/1600 Series

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

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	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
Serial Standards	UPort 1610-16: RS-232 UPort 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: 13, 12, 11, 10.12 to 10.15
Virtual Machine	VMware Fusion (Windows on macOS 13, 12, 11, 10.12 to 10.15) Parallels Desktop (Windows on macOS 13, 12, 11, 10.12 to 10.15) VMWare ESXi (Linux kernel 4)
Arm®-based Platform Support	Linux kernel 6.x, 5.x and 4.x
Android API	Android 3.1.x and later

Power Parameters

Input Voltage	100 to 240 VAC
Input Current	220 mA @ 100 VAC

Physical Characteristics

Housing	Metal
Dimensions	440 x 45.5 x 198.1 mm (17.32 x 1.79 x 7.80 in)
Weight	2,475 g (5.45 lb)

Environmental Limits

Operating Temperature	0 to 55°C (32 to 131°F)
Storage Temperature (package included)	-20 to 75°C (-4 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

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	UL 60950-1

Declaration

Green Product	RoHS, CRoHS, WEEE

MTBF

Time	UPort 1610-16: 138,704 hrs UPort 1650-16: 120,001 hrs
Standards	MIL-HDBK-217F

Warranty

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

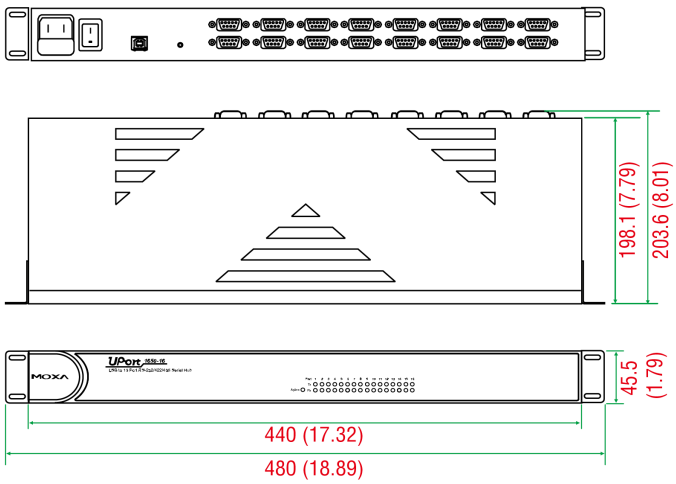
Package Contents

Device	1 x UPort 1600-16 USB-to-serial converter
Cable	1 x USB type A male to USB type B male
Connectors	UPort 1650-16: Mini DB9F-to-TB
Power Supply	1 x power cord
Installation Kit	1 x rack-mounting ear
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

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 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 RJ50 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
LB-DB9F-G-01	Serial loopback DB9 adaptor

Rack-Mounting Kits

WK-45-01	Rack-mounting kit, 2 L-shaped plates, 8 screws, 45 x 57 x 2.5 mm

Power Cords

PWC-C13EU-3B-183	Power cord with EU/KR plug, 1.83 m
PWC-C13US-3B-183	Power cord with US plug, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong CN plug, 1.83 m
PWC-C13JP-3B-183	Power cord with JP plug plug, 7A/125V, 1.83 m
PWC-C13UK-3B-183	Power cord with UK plug, 1.83 m
PWC-C13AU-3B-183	Power cord with AU plug, 1.83 m

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