

UPort® 1400 Series

4-port RS-232 and RS-232/422/485 USB-to-serial converters with optional 2 kV isolation



- > Hi-Speed USB 2.0 for up to 480 Mbps USB transmission
- > 921.6 kbps maximum baudrate for super fast data transmission
- > 15N high retention USB Type B connector
- > 128-byte FIFO and on-chip H/W, S/W flow control
- > 2 kV electrical isolation (UPort 1450I only)
- > Hassle-free COM port retention
- > Supports fixed-base COM Utility for setting the initial extended COM port number
- > Drivers provided for Windows/WinCE/Linux
- > Choose bus power or external power (UPort 1410/1450 only)
- > Locking power jack



Overview

The UPort® 1400 USB-to-serial converters allow you to connect 4 RS-232 or RS-232/422/485 devices to your laptop or workstation through the USB (Universal Serial Bus) port. The UPort® 1400

converters are compatible with new and legacy serial devices, and they are perfect for mobile, instrumentation, and point-of-sale applications.

Specifications

USB Interface

Compliance: USB 1.1/2.0 compliant

Connector: USB Type B

Speed: 480 Mbps (Hi-Speed USB) and 12 Mbps (Full-Speed USB)

Serial Interface

Number of Ports: 4

Serial Standards:

UPort 1410: RS-232

UPort 1450/1450I: RS-232/422/485

Connector: DB9 male

Electrical Isolation: 2 kV (UPort 1450I only)

Performance

Baudrate: 50 bps to 921.6 kbps (including 500 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: 128 bytes

Serial Signals

RS-232: Tx/D, Rx/D, RTS, CTS, DTR, DSR, DCD, GND

RS-422: Tx/D+(B), Tx/D-(A), Rx/D+(B), Rx/D-(A), GND

RS-485-4w: Tx/D+(B), Tx/D-(A), Rx/D+(B), Rx/D-(A), GND

RS-485-2w: Data+(B), Data-(A), GND

RS-485 Data Direction: ADDC® (Automatic Data Direction Control)

Operating Systems

Windows Real COM Drivers: Windows 2000, Windows XP/2003/ Vista/2008/7/8/8.1/10 (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

Android Driver: Android 3.1.x and later

Note: Please refer to Moxa's website for the latest driver support information.

Physical Characteristics

Housing: SECC sheet metal (1 mm)

Weight:

Product only: 720 g (1.59 lb)

Packaged: 1345 g (2.96 lb)

Dimensions: 204 x 30 x 125 mm (8.03 x 1.18 x 4.92 in)

Environmental Limits

Operating Temperature: 0 to 55°C (32 to 131°F)

Storage Temperature: -20 to 75°C (-4 to 167°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

Safety: UL 60950-1

EMC: EN 55022/24

EMI: CISPR 22, 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

Green Product: RoHS, CRoHS, WEEE

Power Requirements

Input Voltage: 12 to 48 VDC

Input Current:

- UPort 1410/1450:
0.5 A @ 5 VDC for USB port
260 mA @ 12 VDC for external adapter
- UPort 1450I:
360 mA @ 12 VDC external adapter

MTBF (mean time between failures)

Time:

UPort 1410: 394,441 hrs

MIL-HDBK-217F

UPort 1450/1450I: 546,770 hrs

Telcordia (Bellcore), GB

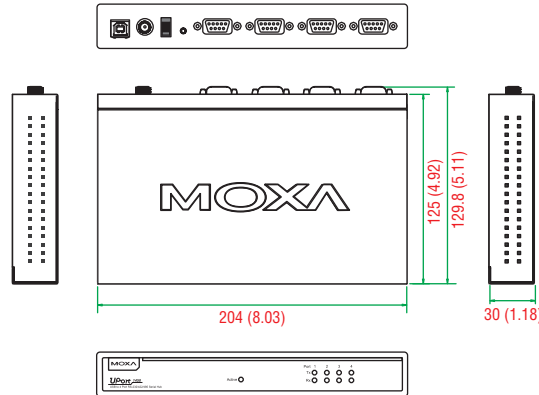
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



: Ordering Information

Available Models

UPort 1410: 4-port RS-232 USB-to-serial converter

UPort 1450: 4-port RS-232/422/485 USB-to-serial converter, adapter included

UPort 1450I: 4-port RS-232/422/485 USB-to-serial converter with 2 kV electrical isolation, adapter included

Optional Accessories (can be purchased separately)

DK35A: 35-mm DIN-rail mounting clips; 2 DIN-rail plates with 4 screws

Mini DB9F-to-TB: DB9 female to terminal block connector

CBL-USBA/B-100: USB Type A to USB Type B cable, 100 cm

CBL-F9M9-150: DB9 female to DB9 male serial cable, 150 cm

CBL-F9M9-20: DB9 female to DB9 males serial cable, 20 cm

CBL-RJ45SF9-150: RJ45 to DB9 female shielded serial cable, 150 cm

ADP-RJ458P-DB9: DB9 female to RJ45 connector

A-ADP-RJ458P-DB9F-ABC01: DB9 female to RJ45 connector

DK-UP1400: DIN-rail/wall- mounting kit that includes 2 wall-mounting plates with 6 screws (WK-35-01), and 2 DIN-rail plates with 4 screws (DK35A)

DIN-Rail Kit: DIN-rail kit with 2 screws (P/N: 1490000150011)

Note: One power cord suitable for your region is included in the product package. Additional power adapters and power cords can be purchased separately. Please refer to the Power Accessory Selection Guide for details.

Package Checklist

- 1 UPort 1400 USB-to-serial converter
- USB cable: CBL-USBA/B-100
- UPort 1450/1450I only:
> 1 serial adapter: mini DB9F-to-TB
> 100 to 240 VAC power adapter suitable for your region
> 1 power cord suitable for your region
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

DK-UP1400



Available Accessory