# **UPort 1400-G2 Series**

### 4-port RS-232/422/485 USB-to-serial converters



#### **Features and Benefits**

- USB 3.2 SuperSpeed capability
- 512-byte on-chip FIFO cache and flow control for enhanced performance
- · Drivers provided for a broad selection of operating systems, including Windows and Linux
- 50 bps to 921.6 kbps baudrate (nonstandard baudrates supported)
- Double-sided LEDs located at the corners show power, TX, and RX statuses in either directions
- · Latching USB cable design for firmer connection
- Wide operating temperature models available for -40 to 75°C (-40 to 167°F) environments
- · Serial port with 2 kV isolation protection (for "-I" models)

#### **Certifications**









#### Introduction

The UPort® 1400-G2 Series USB-to-serial converters are ideal for laptop or workstation computers that need serial port expansion. They are essential for computers which need to connect different serial devices in the field or need separate interface converters for devices without a standard COM port or DB9 connector. The computers also come with a USB cable that has a latch and screw lock for a more secure connection between the UPort and your computer. The UPort® 1400-G2 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

USB Standards	USB 3.2 Gen 1 USB 1.1/2.0 compliant
Speed	5 Gbps, 480 Mbps, 12 Mbps
No. of USB Ports	1
USB Connector	USB Type B

#### Serial Interface

Connector	DB9 male
No. of Ports	4
Serial Standards	RS-232: UPort 1410-G2 RS-232/422/485: All other models
FIFO	512 bytes
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Parity	None, Even, Odd, Space, Mark
Data Bits	5, 6, 7, 8



Stop Bits	1, 1.5, 2
Flow Control	RTS/CTS, XON/XOFF
RS-485 Data Direction Control	Automatic Data Direction Control (ADDC)
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
Terminator for RS-485	120 ohms
Surge	0.5 kV
Isolation	2 kV (I models)
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 and 7 Windows Server 2022, 2019, 2016, 2012 R2, 2012 and 2008 R2
Linux Drivers	Kernel 6.x, 5.x and 4.x
Mac Drivers	macOS version (Intel 64): 13, 12, 11 and 10.1x
Virtual Machine	VMware Fusion (Windows on macOS 13, 12, 11, 10.1x, Intel 64) VMWare ESXi (Linux kernel 4) Parallels Desktop (Windows on macOS 13, 12, 11, 10.1x, Intel 64)
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	5 VDC by USB bus power or 12 to 48 VDC by external power adaptor
Input Current	UPort 1410-G2: 183 mA @ USB 2.0, 370 mA @ USB 3.2, 200 mA @ 12 VDC UPort 1450-G2 models: 266 mA @ USB 2.0, 452 mA @ USB 3.2, 240 mA @ 12 VDC UPort 1450l-G2 models: 445 mA @ USB 2.0, 633 mA @ USB 3.2, 340 mA @ 12 VDC
Physical Characteristics	
Housing	Metal
Dimensions	185 x 30 x 90.6 mm (7.28 x 1.18 x 3.57 in)
Weight	UPort 1410-G2: 359 g (0.79 lb) UPort 1450-G2 models: 373 g (0.82 lb) UPort 1450l-G2 models: 379 g (0.84 lb)
IP Rating	IP20
Environmental Limits	
Operating Temperature	Standard models: 0 to 60°C (32 to 140°F) -T models: -40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 75°C (-40 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)



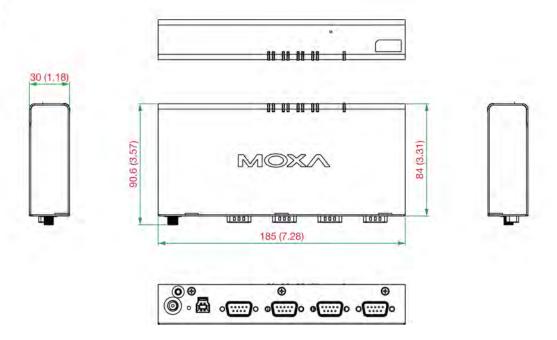
#### Standards and Certifications

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, Signal: 0.5 kV kV IEC 61000-4-6 CS: 3 V; 150 kHz to 80 MHz IEC 61000-4-8 PFMF
Safety	IEC 62368-1 EN 62368-1 UL 62368-1 (CB) KC
Green Product	RoHS, CRoHS, WEEE
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6 IEC 60068-2-64
Freefall	IEC 60068-2-31
MTBF	
MTBF Standards	Telcordia Standard SR332, Telcordia Issue 2
	Telcordia Standard SR332, Telcordia Issue 2  UPort 1410-G2: 1,846,458 hrs  UPort 1450-G2 models: 1,431,860 hrs  UPort 1450l-G2 models: 1,140,587 hrs
Standards	UPort 1410-G2: 1,846,458 hrs UPort 1450-G2 models: 1,431,860 hrs
Standards Time	UPort 1410-G2: 1,846,458 hrs UPort 1450-G2 models: 1,431,860 hrs
Standards Time Package Contents	UPort 1410-G2: 1,846,458 hrs UPort 1450-G2 models: 1,431,860 hrs UPort 1450I-G2 models: 1,140,587 hrs
Standards Time  Package Contents Device	UPort 1410-G2: 1,846,458 hrs UPort 1450-G2 models: 1,431,860 hrs UPort 1450l-G2 models: 1,140,587 hrs  1 x UPort 1400-G2
Standards Time  Package Contents Device Cable	UPort 1410-G2: 1,846,458 hrs UPort 1450-G2 models: 1,431,860 hrs UPort 1450l-G2 models: 1,140,587 hrs  1 x UPort 1400-G2  1 x USB 3.2 Gen 1 cable with latch and screw
Standards Time  Package Contents Device  Cable Installation Kit	UPort 1410-G2: 1,846,458 hrs UPort 1450-G2 models: 1,431,860 hrs UPort 1450l-G2 models: 1,140,587 hrs  1 x UPort 1400-G2  1 x USB 3.2 Gen 1 cable with latch and screw  4 x rubber stand  1 x quick installation guide
Standards  Time  Package Contents  Device  Cable  Installation Kit  Documentation	UPort 1410-G2: 1,846,458 hrs UPort 1450-G2 models: 1,431,860 hrs UPort 1450l-G2 models: 1,140,587 hrs  1 x UPort 1400-G2  1 x USB 3.2 Gen 1 cable with latch and screw  4 x rubber stand  1 x quick installation guide



# **Dimensions**

Unit: mm (inch)



# **Ordering Information**

Model Name	Serial Standards	No. of Serial Ports	Isolation	Power Input	Operating Temp.
UPort 1410-G2	RS-232	4	-	USB bus power/ Power adapter	0 to 60°C
UPort 1450-G2	RS-232/422/485	4	-	USB bus power/ Power adapter	0 to 60°C
UPort 1450-G2-T	RS-232/422/485	4	-	USB bus power/ Power adapter	-40 to 75°C
UPort 1450I-G2	RS-232/422/485	4	2 kV	USB bus power/ Power adapter	0 to 60°C
UPort 1450I-G2-T	RS-232/422/485	4	2 kV	USB bus power/ Power adapter	-40 to 75°C

# **Accessories**

# Cables

CBL-USB3-BA-G-120	USB 3.2 Gen 1 cable, type A-to-type B with latch and screw, 1.2 m
CBL-USB3-BA-G-028	USB 3.2 Gen 1 cable, type A-to-type B with latch and screw, 0.28 m
CBL-USB3-BA-BK-120	USB 3.2 Gen 1 cable, type A-to-type B, 1.2 m
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

#### Connectors

LB-DB9F-G-01	Serial loopback DB9 adaptor
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

#### **DIN-Rail Mounting Kits**

DK-UP1400-G2	DIN Rail mounitng kits for UPort 1400-G2

#### Wall-Mounting Kits



WK-UP400A-BOT-BK	Bottom-panel wall-mounting kit for the UPort 400A/1400-G2/1600-G2 Series with 2 plates (43 x 30 x 2
WK-0F400A-BOT-BK	mm or 1.69 x 1.18 x 0.08 in), 6 M3 x 5 mm screws
Rack-Mounting Kits	
RK-UP1600-G2	Rack mounting kits for UPort 1400/1600-G2
Power Adapters	
PWR-12050-EU-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, EU plug, 0 to 40°C operating temperature
	Applicable Models: UPort 1410-G2 UPort 1450-G2 UPort 1450l-G2
PWR-12050-CN-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, CN plug, 0 to 40°C operating temperature
	Applicable Models: UPort 1410-G2 UPort 1450-G2 UPort 1450l-G2
PWR-12050-USJP-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, US/JP plug, 0 to 40°C operating temperature
	Applicable Models: UPort 1410-G2 UPort 1450-G2 UPort 1450l-G2
PWR-12050-UK-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, UK plug, 0 to 40°C operating temperature
	Applicable Models: UPort 1410-G2 UPort 1450-G2 UPort 1450l-G2
PWR-12050-AU-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, AU plug, 0 to 40°C operating temperature
	Applicable Models: UPort 1410-G2 UPort 1450-G2 UPort 1450l-G2
PWR-12050-KR-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, KR plug, 0 to 40°C operating temperature
	Applicable Models: UPort 1410-G2/KC UPort 1450-G2/KC UPort 1450I-G2/KC
PWR-12150-EU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, EU plug, -40 to 75°C operating temperature
	Applicable Models: UPort 1450-G2-T UPort 1450I-G2-T
PWR-12150-USJP-SA-T	Locking barrel plug, 12 VDC 1.5 A, 100 to 240 VAC, US/JP plug, -40 to 75°C operating temperature
	Applicable Models: UPort 1450-G2-T UPort 1450I-G2-T
PWR-12150-CN-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, CN plug, -40 to 75°C operating temperature
	Applicable Models: UPort 1450-G2-T UPort 1450I-G2-T
PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, AU plug, -40 to 75°C operating temperature
	Applicable Models: UPort 1450-G2-T UPort 1450I-G2-T
PWR-12150-UK-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, UK plug, -40 to 75°C operating temperature
	Applicable Models: UPort 1450-G2-T UPort 1450l-G2-T



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