

UPort 1600-8-G2 系列

8 埠 RS-232/422/485 USB 轉串列轉換器



特色與優點

- USB 3.2 超高速功能
- 512 位元芯片上FIFO 快取和流量控制可增強效能
- 支援多種作業系統的驅動程式，包括 Windows 和 Linux
- 50 bps 至 921.6 kbps 鮑率 (支援非標準鮑率)
- 角落的雙面 LED 可全方位顯示電源、TX 和RX 狀態
- 可串接最多 3 台 UPort-G2 裝置，將連接埠容量擴充至 32 個連接埠；無需額外電源轉換器 (UPort 1650-8-G2-Hub)
- 連接更牢固的閉鎖式 USB 銅纜設計
- 適合 -40 至 75°C (-40 至167°F) 作業環境的寬溫度型號
- 內建 2 kV 光電隔離保護的串列埠 (適用於「-I」型號)

認證



簡介

UPort® 1600-8-G2 系列USB 轉串列轉換器非常適合需要串列埠擴充的筆電或工作站電腦。對於需要在現場連接不同串列設備或是沒有標準COM 埠或 DB9 接頭獨立介面轉換器的電腦來說，必不可少。電腦還配備了USB 銅纜，其具有閉鎖和螺絲鎖以確保UPort 和電腦之間更加安全的連接。透過UPort® 1650-8-G2-Hub 的級聯功能，無需電源適配器即可將多達32 個串列埠連結到UPort。UPort® 1600-8-G2 系列可將USB 轉換成RS-232/422/485。所有產品皆與傳統串列設備相容，適用於儀器控制與銷售點應用。

規格

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 x UFP for all models, and 3 additional DFP for UPort 1650-8-G2-Hub
USB Connector	USB type B (UFP) for all models, and type A (DFP) for UPort 1650-8-G2-Hub

Serial Interface

Connector	DB9 male
No. of Ports	8
Serial Standards	RS-232: UPort 1610-8-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	UPort 1610-8-G2/1650-8-G2 models: 5 VDC by USB bus power or 12 to 48 VDC by external power adaptor UPort 1650I-8-G2 models/1650-8-G2-Hub: 12 to 48 VDC by external power adaptor
Input Current	UPort 1610-8-G2: 308 mA @ USB 2.0, 495 mA @ USB 3.2, 260 mA @ 12 VDC UPort 1650-8-G2 models: 466 ma @ USB 2.0, 652 mA @ USB 3.2, 350 mA @ 12 VDC UPort 1650I-8-G2 models: 530 mA @ 12 VDC UPort 1650-8-G2-Hub: 2,250 mA @ 12 VDC
Output Power Rating	UPort 1650-8-G2-Hub: 900 mA @ 5 VDC (USB 3.2) 500 mA @ 5 VDC (USB 2.0)

Physical Characteristics

Housing	Metal
Dimensions	216 x 41.5 x 121.6 mm (8.50 x 1.63 x 4.79 in)
Weight	UPort 1610-8-G2: 650 g (1.43 lb) UPort 1650-8-G2 models: 670 g (1.48 lb) UPort 1650I-8-G2 models: 678 g (1.49 lb) UPort 1650-8-G2-Hub: 689 g (1.52 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

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 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
Vibration	IEC 60068-2-6 IEC 60068-2-64
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Standards	Telcordia Standard SR332, Telcordia Issue 2
Time	UPort 1610-8-G2: 1,431,860 hrs UPort 1650-8-G2 models: 951,145 hrs UPort 1650I-8-G2 models: 782,795 hrs UPort 1650-8-G2-Hub: 823,983 hrs

Package Contents

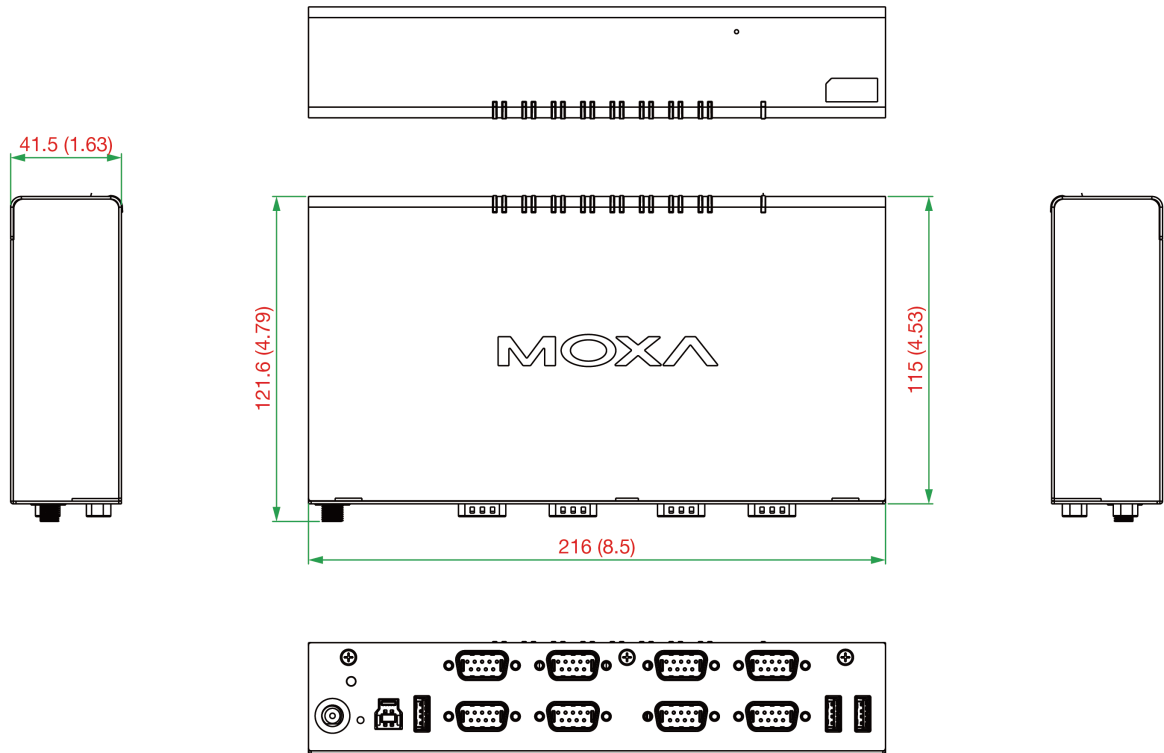
Device	1 x UPort 1600-8-G2
Cable	1 x USB 3.2 Gen 1 cable with latch and screw
Installation Kit	4 x rubber stand
Documentation	1 x quick installation guide 1 x warranty card
Power Supply	Power adapter, suitable for your region (UPort 1650I-8-G2 and UPort 1650-8-G2-Hub only)

Warranty

Warranty Period	5 years Note: Product only
Details	See www.moxa.com/warranty

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	Serial Standards	No. of Serial Ports	Isolation	Power Input	Operating Temp.
UPort 1610-8-G2	RS-232	8	-	USB bus power/ Power adapter	0 to 60°C
UPort 1650-8-G2	RS-232/422/485	8	-	USB bus power/ Power adapter	0 to 60°C
UPort 1650-8-G2-T	RS-232/422/485	8	-	USB bus power/ Power adapter	-40 to 75°C
UPort 1650I-8-G2	RS-232/422/485	8	2 kV	Power adapter	0 to 60°C
UPort 1650I-8-G2-T	RS-232/422/485	8	2 kV	Power adapter	-40 to 75°C
UPort 1650-8-G2-Hub	RS-232/422/485	8	-	Power adapter	0 to 60°C

配件

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

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 mm or 1.69 x 1.18 x 0.08 in), 6 M3 x 5 mm screws
DIN-Rail Mounting Kits	
DK-UP1600-G2	DIN Rail mounting kits for UPort 1600-G2
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 1610-8-G2 UPort 1650-8-G2 UPort 1650I-8-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 1610-8-G2 UPort 1650-8-G2 UPort 1650I-8-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 1610-8-G2 UPort 1650-8-G2 UPort 1650I-8-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 1610-8-G2 UPort 1650-8-G2 UPort 1650I-8-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 1610-8-G2 UPort 1650-8-G2 UPort 1650I-8-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 1610-8-G2/KC UPort 1650-8-G2/KC UPort 1650I-8-G2/KC
PWR-12300-WP-S2	Locking barrel plug with 12 VDC, 3 A, 100 to 240 VAC, without plug, 0 to 40°C operating temperature Applicable Models: UPort 1650-8-G2-Hub UPort 1650-8-G2-Hub/KC
PWR-Plug-EU-02	EU plug for PWR-12150-WPEU and PWR-12300-WPEU Applicable Models: UPort 1650-8-G2-Hub
PWR-Plug-USJP-02	US/JP plug for PWR-12150-WPUSJP and PWR-12300-WPUSJP Applicable Models: UPort 1650-8-G2-Hub
PWR-Plug-CN-02	CN plug for PWR-12150-WPCN and PWR-12300-WPCN Applicable Models: UPort 1650-8-G2-Hub
PWR-Plug-UK-02	UK plug for PWR-12150-WPUK and PWR-12300-WPUK Applicable Models: UPort 1650-8-G2-Hub

PWR-Plug-AU-03	AU plug for PWR-12300-WPAU Applicable Models: UPort 1650-8-G2-Hub
PWR-Plug-KR-02	KR plug for the PWR-12150-WPKR and the PWR-12300-WPKR Applicable Models: UPort 1650-8-G2-Hub/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 1650-8-G2-T UPort 1650I-8-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 1650-8-G2-T UPort 1650I-8-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 1650-8-G2-T UPort 1650I-8-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 1650-8-G2-T UPort 1650I-8-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 1650-8-G2-T UPort 1650I-8-G2-T

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