



Technical Data Sheet

USB to Serial Surge and Optical Isolation converter RS-422/485

Model Number: USB-COMi-Si



The USB-COMi-SI Industrial Single RS-422/485 Adapters are designed to make serial port expansion quick and simple. The USB Serial Adapter provides instant connectivity to RS-422/485 communication devices for factory automation equipment, multi-drop data collection devices, barcode readers, time clocks, scales, data entry terminals, ATMs and serial communication in harsh environment. The output port Of USB-COMi-Si is optically isolated with 2000 Volt DC optical isolation.

Features

- TAA Compliant.
- Adds one high speed RS-422 / 485 serial port.
- RS-422/485 port is optically isolated.
- RS-422/485 port is protected by surge protector up to 25kv ESD.
- Auto transmit buffer control for 2-wire RS-485 half-duplex operation.
- Termination and BIAS resistors installed on-board.
- Monitor LEDs of TxD, RxD indicating port status.
- Powered by USB port, no external power adapter required.
- Virtual COM port drivers available for Windows 7, 8, 8.1, 10

Product Information

- **Model Number:** [USB-COMi-Si](#)
- **Packing List:**
 - RS-422/485 Optical Isolated Serial Adapter
 - 3ft. USB-A male to USB-B male cable
 - Driver Disk
- **Optional Accessories:** N/A

Specifications

Overview

Interface	USB 2.0 to Serial
Port Connections	1x DB-9 Male
Protections	2000 Volt DC optical isolation / Surge protection of 25KV ESD
Protocol	RS-422/485
Speed	Up to 921.6K bps
FTDI Chip	FT231XQ-R
Available Power Modes	USB Bus Powered, no external power adapter required
Color	Blue / Gray
Compliance	TAA

Physical Features

Construction	Plastic
Cable Length	3ft.
Dimensions	3.30(L)x2.87(W)x1.66in(H)
Weight	.156 lbs
OS Support	Windows 7, Windows 8, 8.1 and Windows 10, Linux and Mac OS 10.X

Transmit & Receive

Transmit Buffer	512 bytes
Receive Buffer	512 bytes

Signals

RS-422 Data	TxD-, TxD+, RxD+, RxD-, GND, RTS-, RTS+, CTS+, CTS-
RS-485 4-Wire Data	TxD-, TxD+, RxD+, RxD-
RS-485 2-Wire Data	Data-, Data+

Available Modes

RS-422 Full Duplex
RS-485 4-wire, full duplex
RS-485 2-wire, half duplex, with echo
RS-485 2-wire, half duplex, without echo

Environment

Operating Temperature	0 to 55°C (32 to 131 °F)
Operating Humidity	5 to 95% RH
Storage Temperature	-20 to 75°C (-4 to 167 °F)

General Applications

Applications	Factory Automation, Data Centers, Serial Equipment, Kiosk, Office, and others.
--------------	--

Product URL

USB-COMi-Si product page	https://www.coolgear.com/product/usb-to-serial-surge-and-optical-isolation-converter-rs-422rs-485
--------------------------	---