Technical Data Sheet

USB to Optical Adapter Industrial Isolated RS-422/485

Model Number: USB-COMi-Si-M







The USB-COMi-SI-M USB-to-Optically Isolated RS-422/485 Adapter is designed to 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, PC to PC long distance communications, ATMs and serial communication in harsh environment.

Features

- TAA Compliant.
- Adds a high speed RS-422 / 485 serial port via USB connection.
- Requires no IRQ, DMA, I/O port.
- Data rates: 300 bps to 921.6K bps.
- Auto transmit buffer control for 2-wire RS-485 half-duplex operation.
- Termination resistors installed on-board.
- Monitor LEDs of TxD, RxD indicating port status.
- External 4-pin dip switch to set RS-422, or RS-485 modes.
- Virtual COM port drivers provided for Windows 7, Vista, 2003, XP, 2000.
- Self-power (500mA, 5V)

Product Information

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

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Specifications

Overview	
Interface	USB to Serial
Port Connections	1x DB-9 Male / 1 6-wire terminal block
Protections	2000V DC Optical Isolation / 25kv surge protection
Protocol	RS-422/485 Serial
Baud Rate	up to 921.6K bps
Available Power Modes	USB Bus Powered, no external power adapter required
Color	Black
Compliance	TAA
Safety Approvals	EN55022 Class B, EN55024, EN61000-3-2, EN61000-3 IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11. CISPR PUB. 22 and FCC Part 15 Class B.
Physical Features	
Construction	SECC Metal
Cable Length	3ft.
Dimensions	72.10(L 81.34 w/ears))x58.13(W)x22.68mm(H)
Weight	.31 lbs
OS Support	Windows 10, 7, Vista, 2003, XP (WHQL certified) and 2000, Linux Kernel 2.4 and up built-in support
Current Certifications	CE, FCC, RoHS
Signals	
RS-422 Data Signals	TxD-, TxD+, RxD+, RxD-, GND, RTS-, RTS+, CTS+, CTS-
RS-485 4-Wire Data Signals	TxD-, TxD+, RxD+, RxD-
RS-485 2-Wire Data Signals	Data-, Data+
Serial COM 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 byte transmit FIFO / 384 receive FIFO
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	Data Center, Modem, POS, Printer, BarCode Scanners, Time Clocks – Industrial serial RS-232 protocol applications
Product URL	
USB-COMi-SI-M product page	https://www.coolgear.com/product/usb-to-optical-isolated-rs-422485-industrial-adapter

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USBG-COM-SI-M CG-4P31CHUB USB2-4COM-M USBG-3X4MR2-PCBA CG-6PU2MGD USBG-12U3ML USBG-7DU2 CG-U3MINI4P-BPH U2CHGRHUB10 USB3.0-ABM-0.5FT USBG-COMI-M CG-UCUSBPD USB-COMI-SI USB3.0-ABM-3FT USBG-2COMI-SI-M USBG-4U3ML USB2-8COMI-SI-TB CG-7PU313C CM-41082 USBG-4SU2MLA USBG-7U2ML USB-232TTLMOS-IS USB3-16U1 USBG-1699 USBG-COMI-SI-M USB-32COM-RM USB-4X232FTDI USBG-4U2ML CG-U3CMAF-PM USB2-8COMI-TB