



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 provide 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

Specifications

Overview

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|-----------------------|--|
| 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

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|------------------------|--|
| 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

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|----------------------------|---|
| 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

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|--------------|---|
| 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

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|-----------------------|----------------------------|
| 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

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|--------------|--|
| Applications | Data Center, Modem, POS, Printer, BarCode Scanners, Time Clocks – Industrial serial RS-232 protocol applications |
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Product URL

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|----------------------------|---|
| USB-COMi-SI-M product page | https://www.coolgear.com/product/usb-to-optical-isolated-rs-422485-industrial-adapter |
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