

Model Information



■ Main Features

- USB 2.0 to 1 x RS232/422/485
- High-Speed serial ports 921.6kbps
- Driver for Windows, Linux, Mac OS X
- LEDs for Power and TxD/RxD activity
- ESD protection on USB and serial ports
- 2.5kV electrical isolation (ISO version only)
- Small metal housing and Bus powered
- DIN-Rail and wall mountable
- Wide range of operating temperatures

[Contact Online...](#)

USB-COM Plus Mini

USB-COM Plus Mini ISO

(USB-COMi-M, USB-COMi SI-M)

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■ More Pictures



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■ Overview

USB-COM Plus Mini provides easy serial port expansion over USB 2.0 connecting to high speed RS232 or RS422/485 devices. The device is fully ESD and surge protected, bus powered and accommodated in a tiny metal case. Furthermore, it can operate across a large range of temperature levels to cope with harsh operating conditions. The ISO version is 2.5kV electrically isolated to withstand unbalanced ground loops that arise in hazardous industrial environment. Lastly, both DIN-Rail and wall-mounting options are available.

Flexible Three-Way Serial Ports

The serial port allows different operating modes — which are easily configured using the bottom DIP switch — to fully support RS232, RS422 and RS485 protocols. The differential line termination for RS485 (120Ω) is automatically controlled by choosing the appropriate operating mode. High/Low biasing resistors are not needed; as such, hassle-free usage is guaranteed for the user.

Com Port drivers are available for Windows, Linux and Mac OS X. A configuration tool allows easy access to special Windows driver options.

High Speed and Isolation

USB 2.0 full speed connection allows serial data rates of up to 3Mbps for RS422/485 and 921.6kbps for RS232. Every non-standard bitrate (e.g. 500kbps) can easily be set up in the range of up to 960 kbps.

The USB-COM Plus Mini is fully ESD and surge protected at the USB and serial port interfaces. Additionally, the serial port are 2.5kV electrically isolated (ISO-version only), making it ideal for deployment in hazardous industrial environments.

■ USB Interface

USB-Input USB 2.0 Full Speed, USB 1.1 compliant

Connector USB type B

Circuits FTDI FT231XS

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■ Serial Interface

No. of Ports/Type 1 x RS232/422/485 configured by DIP switch

Connector DB-9 male

Protection

- 16kV ESD surge protection
- 2.5kV Electrical isolation on ISO version

Operating Modes

- RS232
- RS422 full duplex (120Ω on/off)
- RS485 4 wire, full duplex (120Ω on/off)
- RS485 2 wire, half duplex (120Ω on/off)

Configuration One DIP switch sets the operating mode and RS422/485 termination
No High/Low biasing resistors needed

Signals non-ISO

- RS232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND
- RS422: Tx+/-, Rx+/-, GND
- RS485 4-wire: Tx+/-, Rx+/-, GND
- RS485 2-wire: Data+/-, GND

Signals ISO

- RS232: TxD, RxD, RTS, CTS, GND
- RS422: Tx+/-, Rx+/-, GND
- RS485 4-wire: Tx+/-, Rx+/-, GND
- RS485 2-wire: Data+/-, GND

All signals isolated for 2.5kV

RS485 Data Direction Control ARTc (Automatic Receive Transmit control)

Data Bits 7, 8

Stop Bits 1, 2

Parity None, Even, Odd, Mark, Space

Flow Control RTS/CTS, XON/XOFF

Baudrate

- RS232: 180bps - 921.6/1000kbps
- RS422: up to 3Mbps
- RS485: up to 3Mbps

LEDs bicolour TxD/RxD for each port

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■ Software

Drivers

- Windows 2000 to Windows 10 (x86 and x64)
- Windows Server 2000 to 2016 (x86 and x64)
- Linux (Kernel 3.4 and later built-in)
- Mac OS X

Installation The driver is already installed (Linux), or installs by automatic Download after Device connection (Windows).

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■ Power Requirement

Input Voltage 5V (USB)

Power Consumption max 85mA, 420mW

Connector USB Type B, bus powered, no external supply

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■ Housing and Mounting

Case 0.8mm sheet metal

Weight 150g, w/h box 0.3kg

Dimensions	50×72×22 mm ³ (W×L×H) Case 72×72×22 mm ³ (W×L×H) with mounting wings
Packaged	85×122×55 mm ³
Mounting	<ul style="list-style-type: none"> • DIN-Rail (optional) • Wall mount
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■ Environmental Data	
Operating Temp	–25°C - 75°C
Storage Temp	–30°C - 85°C
Ambient Humidity	5-95% non condensing
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■ Standards and Certifications	
Declarations	CE, FCC
EMI	<ul style="list-style-type: none"> • EN 55022 Class B • 47 CFR FCC Part 15 Subpart B
EMS (EN 55024)	<ul style="list-style-type: none"> • EN 61000-4-3: Radiated RFI • EN 61000-4-4: Electrical Fast Transient • EN 61000-4-5: Surge • EN 61000-4-6: Induced RFI • EN 61000-4-8: Power Frequency Magnetic Field • EN 61000-4-11: Power supply dips
ESD	EN 61000-4-2 4kV contact 8kV air for <ul style="list-style-type: none"> • Serial Port • USB
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■ MTBF (Mean Time Between Failures)	
MTBF	available soon
Standard	Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7
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■ Warranty	
Warranty Period	2 years
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■ Ordering Information	
655	USB-COM Plus Mini (1x RS232/422/485, non-isolated)
656	USB-COM Plus Mini ISO (1x RS232/422/485, isolated)
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■ Options	
662	DK 35A DIN-Rail mounting kit
663	DB9F-to-TB/5Pins for free wiring option
6061	DB9F-to-RJ45 for changing from DB9 to CAT5 wiring (Optimised for RS422/485 operating modes)
6062	RJ45-to-DB9M for changing back from CAT5 to DB9 wiring (Required to match the DB9 pinout at USB-COM Plus Mini)
661	Serial Null-Modem adapter 9PF-9PF, change male to female
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■ Packaging	
Packing list	<ul style="list-style-type: none"> • USB-COM Plus Mini device • USB 2.0 High-Speed cable • 4 rubber feet for table mode
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USB-COM Plus Configurator

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VScom USB-COM Plus Configurator

File Help

Present COM-Ports Show disconnected devices

COM3
COM4
COM6

Port Settings

Min. Read Timeout (ms): Serial Enumerator

Min. Write Timeout (ms): Serial Printer

Polling Period: Cancel If Power Off

Latency Timer: Event On Surprise Removal

Set RTS On Close

Disable Modem Ctrl At Startup

Default Settings

Optimize for USB-COM

Optimize for USB-CAN

Baud Rate Mappings

Buffered Writes

Rename COM Port

Global Settings

Ignore Hardware Serial Number

Reload Driver

Refresh OK Cancel Apply

Close All Ports

VScom USB-COM 232, SN: DN6NP3AA, ID: 4036015, LocalID: 31; Open COM Ports: 0

Terminal Block Adapter

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