

USB COM Plus

USB-Input USB 2.0 High Speed, USB 1.1 compliant

Connector USB type B

Circuits FTDI FT4232H
Genesys GL850G

■ Serial Interface

No. of Ports/Type 1, 2, 4 and 8 x RS232/422/485 configurable by DIP switch and software

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)

The single DIP switch at rear side configures all ports in the same operating mode or individually via software:

Configuration

- Windows: using "VScOm USB Configurator" Utility
- All OS: using Terminal emulation

The operating mode controls termination.
No High/Low biasing resistors needed

Signals non-ISO

- RS232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, 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 12Mbps
- RS485: up to 12Mbps

LEDs

TxD/RxD for each port



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■ Serial Port Expansion

Connector

USB 2.0 High Speed type A, 500mA @5V at rear side

Expansion Ports

connect USB-xCOM Plus to add more serial ports, also electrically isolated

■ Software

Drivers

- Windows 2000 to Windows 10 (x86 and x64)
- Windows Server 2000 to 2012 (x86 and x64)
- Linux (Kernel 2.6 and later built-in)
- Mac OS X

Installation

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

■ Power Requirement

Input Voltage

- 5V (USB)
- 9-54V Dcin

Power consumption USB-4COM Plus

- Bus-powered: 5V 500mA via USB
- Self-powered: DCin 9 - 54V, 3W + 3W for Port Expansion

Power consumption USB-4COM Plus ISO

- Bus powered: 5V 600mA via USB
- Self powered: DCin 9 - 54V, 5W + 3W for Port Expansion

Port Expansion

DCin supply is compulsory to support Port Expansion.

Connector

- Bus powered: USB Type B, no external supply
- Self powered: 3-Pin Terminal Block



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■ Housing and Mounting

Case	0.8mm sheet metal
Weight	1 Port 150g, w/h box 0.3kg 2 Port 0.25kg, w/h box 0.3kg 4 and 8 port 0.9kg, w/h box 1.5kg
Dimensions	1 Port 50x72x22 mm ³ (WxLxH) Case 2 Port 115x73x25 mm ³ (WxLxH) 4 and 8 port 196x147x44 mm ³ (WxLxH)
Packaged	1 port 85x122x55 mm ³ 2 Port 150x107x48 mm ³ 4 and 8 port 310x192x60 mm ³
Mounting	<ul style="list-style-type: none">• 19-inch Rack• Wall mount• DIN Rail

■ Environmental Data

Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Ambient Humidity	5-95% non condensing

■ Standards and Certifications

Declarations	CE, FCC
EMI	<ul style="list-style-type: none">• EN 55022 Class B• EN 61000-3-2: Limits of harmonic current emissions• EN 61000-3-3: Limitation of voltage changes• 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 Ports• USB• DCin Power connector

■ MTBF (Mean Time Between Failures)

MTBF non-ISO	39.4 Years @ 25°C 22.7 Years @ 45°C
MTBF ISO	29.2 Years @ 25°C 13.7 Years @ 45°C
Standard	Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7



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■ **Warranty**

Warranty Period

2 years



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