

## 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)
- Metal housing and Bus powered
- DIN-Rail and wall mount options
- Wide range of operating temperatures

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# USB-COM Plus USB-COM Plus ISO (USB-COM-PRO)

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### ■ More Pictures



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### ■ Overview

The USB-COM Plus 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 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 rear 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.

USB-COM Plus adapters are 16kV ESD and surge protected at USB and serial ports interfaces. Additionally, the serial port are 2.5kV electrically isolated (ISO version only), making them ideal for deployment in harsh industrial environments.

#### Port Expansion for NetCom Plus 1P and 2P

USB-COM Plus 1 and 2 port adapters can be used to expand the serial ports for NetCom Plus Servers (1 and 2 ports).

Small & Powerfull System, No rotation items, for hard industrial envions, for automation, robot- and cashsystems

## ■ USB Interface

**USB-Input** USB 2.0 Full Speed, USB 1.1 compliant

**Connector** USB type B

**Circuits** FTDI FT2232D

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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** 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** 200mA 1W

**Connector** USB Type B, bus powered, no external supply

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## ■ Housing and Mounting

**Case** 0.8mm sheet metal

<b>Weight</b>	0.25kg, w/h box 0.3kg
<b>Dimensions</b>	115×73×25 mm <sup>3</sup> (W×L×H)
<b>Packaged</b>	150×107×48 mm <sup>3</sup>
<b>Mounting</b>	<ul style="list-style-type: none"> <li>• DIN-Rail (optional)</li> <li>• Wall mount (optional)</li> </ul>
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### ■ Environmental Data

<b>Operating Temp</b>	–25°C - 75°C
<b>Storage Temp</b>	–30°C – 85°C
<b>Ambient Humidity</b>	5-95% non condensing
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### ■ Standards and Certifications

<b>Declarations</b>	CE, FCC
<b>EMI</b>	<ul style="list-style-type: none"> <li>• EN 55022 Class B</li> <li>• 47 CFR FCC Part 15 Subpart B</li> </ul>
<b>EMS (EN 55024)</b>	<ul style="list-style-type: none"> <li>• EN 61000-4-3: Radiated RFI</li> <li>• EN 61000-4-4: Electrical Fast Transient</li> <li>• EN 61000-4-5: Surge</li> <li>• EN 61000-4-6: Induced RFI</li> <li>• EN 61000-4-8: Power Frequency Magnetic Field</li> <li>• EN 61000-4-11: Power supply dips</li> </ul>
<b>ESD</b>	EN 61000-4-2 4kV contact 8kV air for <ul style="list-style-type: none"> <li>• Serial Port</li> <li>• USB</li> </ul>
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### ■ MTBF (Mean Time Between Failures)

<b>MTBF non-ISO</b>	184.3 Years @ 25°C 94.6 Years @ 45°C
<b>MTBF ISO</b>	111.5 Years @ 25°C 50.5 Years @ 45°C
<b>Standard</b>	Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7
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### ■ Warranty

<b>Warranty Period</b>	2 years
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### ■ Ordering Information

<b>601</b>	USB-COM Plus (1x RS232/422/485, non-isolated)
<b><a href="#">603</a></b>	USB-COM Plus ISO (1x RS232/422/485, isolated)
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### ■ Options

<b><a href="#">6692</a></b>	DK-NCP DIN-Rail mounting kit (clamp on rear side)
<b><a href="#">6693</a></b>	WK-NCP Wallmount kit
<b><a href="#">663</a></b>	DB9F-to-TB/5Pins for free wiring option
<b><a href="#">6061</a></b>	DB9F-to-RJ45 for changing from DB9 to CAT5 wiring (Optimised for RS422/485 operating modes)
<b><a href="#">6062</a></b>	RJ45-to-DB9M for changing back from CAT5 to DB9 wiring (Required to match the DB9 pinout at USB-xCOM Plus)
<b><a href="#">661</a></b>	Serial Null-Modem adapter 9PF-9PF, change male to female
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### ■ Packaging

## Packing list

- USB-COM Plus 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
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File Help

Present COM-Ports  Show disconnected devices

COM3  
 COM4  
 COM6

Port Settings

Min. Read Timeout (ms):

Min. Write Timeout (ms):

Polling Period:

Latency Timer:

Baud Rate Mappings

Buffered Writes

Rename COM Port

Refresh

Global Settings

Ignore Hardware Serial Number

Reload Driver

OK

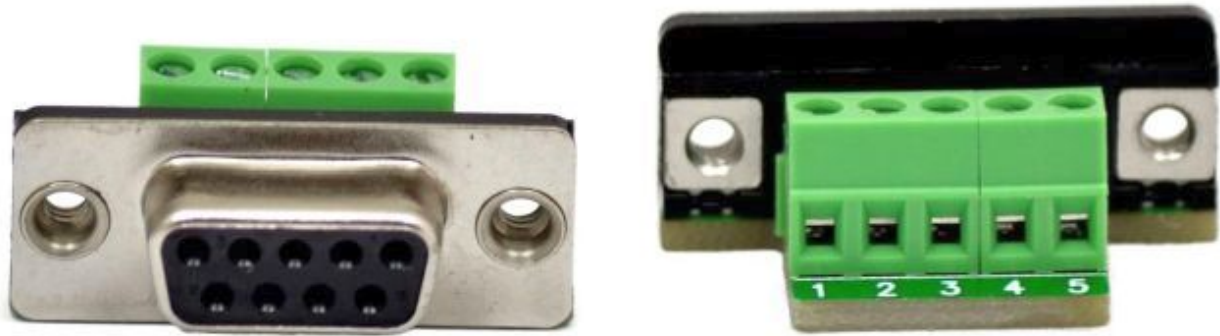
Cancel

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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## DIN-Rail Mount Kit DK-NCP

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## Wall Mount Kit

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**DK-NCP: USB-COM Plus on DIN-Rail**  
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**DSK-NCP: Side-mount on DIN-Rail**  
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