

Model Information



■ Features

- Consists of [2xUSB-8COM Plus](#)
- 16 x RS232/422/485 ports
- USB 2.0 High Speed interface
- USB, serial ports and power supply ESD protected
- Robust metal case
- Ports configuration: via software or DIP-switch
- Serial speed max. 1000(RS232) / 12000(RS485) kbps
- 19-inch and Wall mounting options
- External DCin 9-54V
- Easy port expansion via USB-Out type A connector
- Wide range operating temperature (-25°C - +75°C)

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USB-16COM Plus (USB-16COMi-RM)

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■ More Pictures



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■ Overview

The USB-16COM Plus actually is a combination of two USB-8COM Plus, mounted as a pair via a special Rack Mount kit. Both devices are connected via one USB cable, in essence the pair operates as one USB-COM Plus with 16 simultaneous serial ports.

As the separate modules the USB-16COM Plus adapter connects 16 x RS232 or RS422/485 devices to your PC by one USB 2.0 High Speed port. The serial ports, USB and the power supply are ESD protected, compliant to IEC 61000-4-2 (8kV contact/16kV air discharges). USB-8COM Plus may work in bus-powered mode on stronger than minimum ports, but a DCin connector for external wide range voltage is provided.

All serial ports support RS232, RS422 and RS485 in Full-/Half-Duplex operation modes. The operation modes of the serial ports are either configured by a single DIP switch common for all ports, or for each port individually by software. The configuration also activates built-in RS485 termination if required, no jumpers needed. Standard Drivers are available for all major operating systems.

The USB 2.0 High-Speed enables serial data rates of up to 12Mbps in RS422/485 or 1000kbps in RS232 modes. The device also allows every non-standard bitrate up to 3.5Mbps.

A USB-out (type A) connector at the rear side allows easy expansion of serial ports by simple concatenation of further USB-COM Plus modules; we call it "USB-Through" feature. All USB-COM Plus devices can be used to expand the serial ports for [NetCom Plus Device Servers](#).

■ USB Interface

USB-Input	USB 2.0 High Speed, USB 1.1 compliant
Connector	USB type B
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
USB-Out	USB 2.0 High Speed, USB 1.1 compliant
Connector	USB type A (at rear side) Used to connect more USB-(x)COM modules for port expansion.
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge

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■ Serial Interface

Ports	<ul style="list-style-type: none"> • 16 x RS232/422/485 configurable by software • RS485 Termination configurable by software • Polarization/BIAS not required • Connector DSub-9 male <p>For configuration details see below ...</p>
Speed	<ul style="list-style-type: none"> • RS232: 180bps - 921.6/1000kbps • RS422: up to 12Mbps • RS485: up to 12Mbps
Available Modes	<ul style="list-style-type: none"> • RS232 full duplex • RS422 full duplex • RS485 4-wire, full duplex • RS485 2-wire, half duplex (bus-mode) <p>For configuration details see below ...</p>
Signals	<ul style="list-style-type: none"> • RS232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND • RS422: Tx+/-, Rx+/-, GND • RS485 4-wire: Tx+/-, Rx+/-, GND • RS485 2-wire: Data+/-, GND
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Configuration	<p>Either all ports operate in one common mode, configured by a single DIP switch, or each port is individually configured by a software:</p> <ul style="list-style-type: none"> • Windows: USB-COM Configuration Utility • All OS: Terminal Emulation

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■ Software

Driver	<ul style="list-style-type: none"> • 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 <p>Installation by automatic download from the Internet</p>
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■ Power and Environment

Power Consumption	Self powered: DCin 9 - 54V, 10W Sum of both USB-COM Plus modules
DCin Supply	<ul style="list-style-type: none"> • DCin specs: Wide range 9 - 54V DC, 2x5W • Connector: 3-pin industrial Terminal Block (Plus / Minus / Protective Earth)
DCin Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	437×147×44 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C - 85°C

Case	SECC sheet metal (0.8mm)
Weight	1.9kg
Mounting	19-inch Rack
LEDs	LEDs for Power, Ready, serial Tx, Rx

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■ Standards

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 • DC Power connector

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■ Ordering Information

612 x 2 6694	USB-8COM Plus (8x RS232/422/485, non-isolated, expandable) RK-NCP Mounting kit
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■ Options

6031	DC Power supply adapter 12V @ 1A
<u>663</u>	5-pin Terminal block adapter to DB9 female
<u>6061</u>	RJ45 adapter to DB9 female
<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female

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■ Packaging

Packing list	<ul style="list-style-type: none"> • 2x USB-8COM Plus devices • USB 2.0 High-Speed cable • RK-NCP Mounting kit for 19-inch rack • Terminal block for Power Supply • CD-ROM with configuration software • 8 rubber feet for table mode
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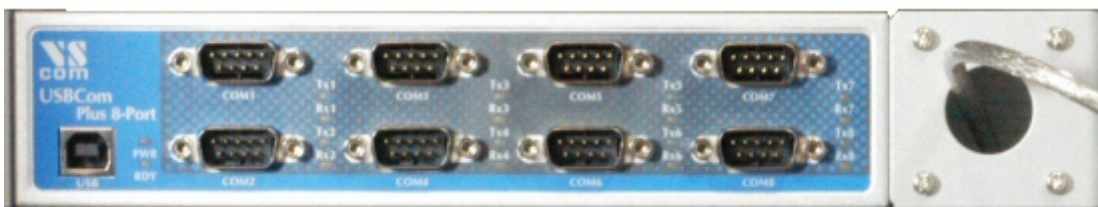
USB-16COM Plus

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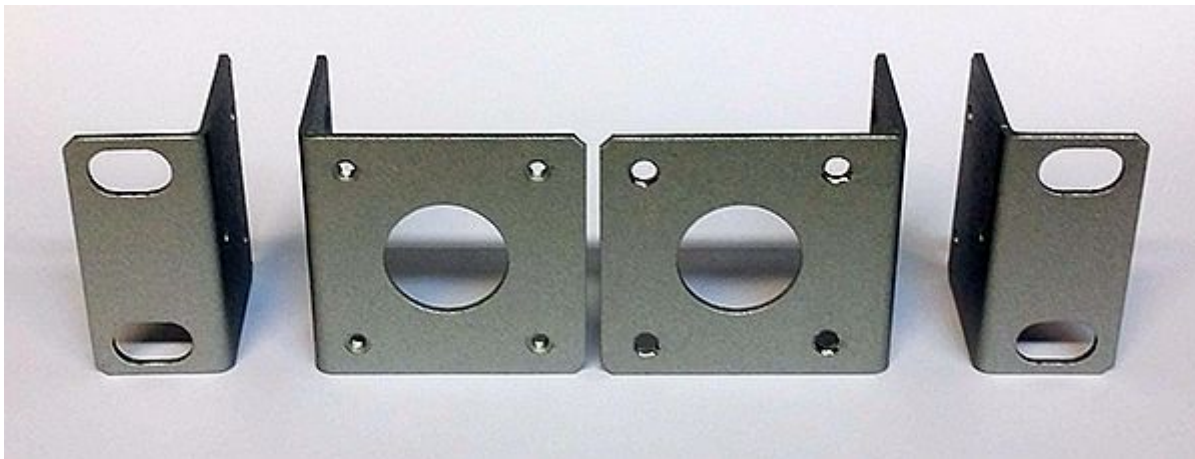
USB-16Com Plus Left Part=USB-8Com Plus

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RK-NCP

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USB-16Com Plus Right Part=USB-8COM Plus

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USB-8COM Plus back side

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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	Port Settings	Min. Read Timeout (ms):	<input type="text" value="0"/>	Serial Enumerator	<input checked="" type="checkbox"/>
COM4		Min. Write Timeout (ms):	<input type="text" value="0"/>	Serial Printer	<input type="checkbox"/>
COM6		Polling Period:	<input type="text" value="0"/>	Cancel If Power Off	<input type="checkbox"/>
		Latency Timer:	<input type="text" value="16"/>	Event On Surprise Removal	<input type="checkbox"/>
		<input type="button" value="Default Settings"/>		Set RTS On Close	<input type="checkbox"/>
		<input type="button" value="Optimize for USB-COM"/>		Disable Modem Ctrl At Startup	<input type="checkbox"/>
		<input type="button" value="Optimize for USB-CAN"/>			
		<input type="button" value="Baud Rate Mappings"/>		Global Settings	
		<input type="button" value="Buffered Writes"/>		Ignore Hardware Serial Number	<input type="checkbox"/>
		<input type="button" value="Rename COM Port"/>		<input type="button" value="Reload Driver"/>	
		<input type="button" value="Refresh"/>	<input type="button" value="OK"/>	<input type="button" value="Cancel"/>	<input type="button" value="Apply"/>

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

Terminal Block Adapter

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