Model Information

Features

- 4 x RS232/422/485 ports
- USB 2.0 High Speed interface
- 2.5kV isolation per serial port
- 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
- Bus powered or ext. DCin 9-54V
- Easy port expansion via USB-Out type A connector
- Wide range operating temperature (-25°C - +75°C)

Contact Online...

USB-4COM Plus ISO

(USB-4COMi SI-M)

Quick Link: | Features | More Pictures | Overview | USB Interface | Serial Interface | Software | Power and Environment | Standards | Ordering Information | Options | Packaging |

More Pictures






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Overview

The modern USB-4COM Plus ISO adapter connects 4 x RS232 or RS422/485 devices to your PC by one USB 2.0 High Speed port. The serial ports are individually isolated for 2.5kV. The serial ports, USB and the power supply are ESD protected, compliant to IEC 61000-4-2 (8kV contact/16kV air discharges). USB-4COM Plus ISO 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	• 4 x RS232/422/485 configurable by software • RS485 Termination configurable by software • Polarization/BIAS not required • Connector DSub-9 male For configuration details see below ...
Speed	• RS232: 180bps - 921.6/1000kbps • RS422: up to 12Mbps • RS485: up to 12Mbps
Available Modes	• RS232 full duplex • RS422 full duplex • RS485 4-wire, full duplex • RS485 2-wire, half duplex (bus-mode) For configuration details see below ...
Signals	• 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
Protection	• Galvanically isolated 2.5kV • Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Configuration	Either all ports operate in one common mode, configured by a single DIP switch, or each port is individually configured by a software: • Windows: USB-COM Configuration Utility • All OS: Terminal Emulation

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Software

Driver	• 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 by automatic download from the Internet

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Power and Environment

Power Consumption	• Bus powered: 5V 600mA via USB • Self powered: DCin 9 - 54V, 4W
USB Supply	Most USB ports provide 600mA, more than the specification. Use the DCin supply otherwise, this is compulsory to support USB-Out.
DCin Supply	• DCin specs: Wide range 9 - 54V DC, 4W • 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	196×147×44 mm³ (W×L×H)

Operating Temp	−25°C - 75°C
Storage Temp	−30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.9kg
Mounting	• 19-inch Rack • Wall mount
LEDs	LEDs for Power, Ready, serial Tx, Rx

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Standards

Declarations	CE, FCC
EMI	• 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)	• 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 • Serial Ports • USB • DC Power connector

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Ordering Information

611	USB-4COM Plus ISO (4x RS232/422/485, isolated, expandable)
609	USB-4COM Plus (4x RS232/422/485, non-isolated, expandable)

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Options

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

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Packaging

Packing list	• USB-4COM Plus ISO device • USB 2.0 High-Speed cable • Mounting brackets for 19-inch rack • Wallmount plates • Terminal block for Power Supply • CD-ROM with configuration software • 4 rubber feet for table mode

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USB-4COM Plus ISO

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USB-4COM Plus ISO back side

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USB-COM Plus Configurator

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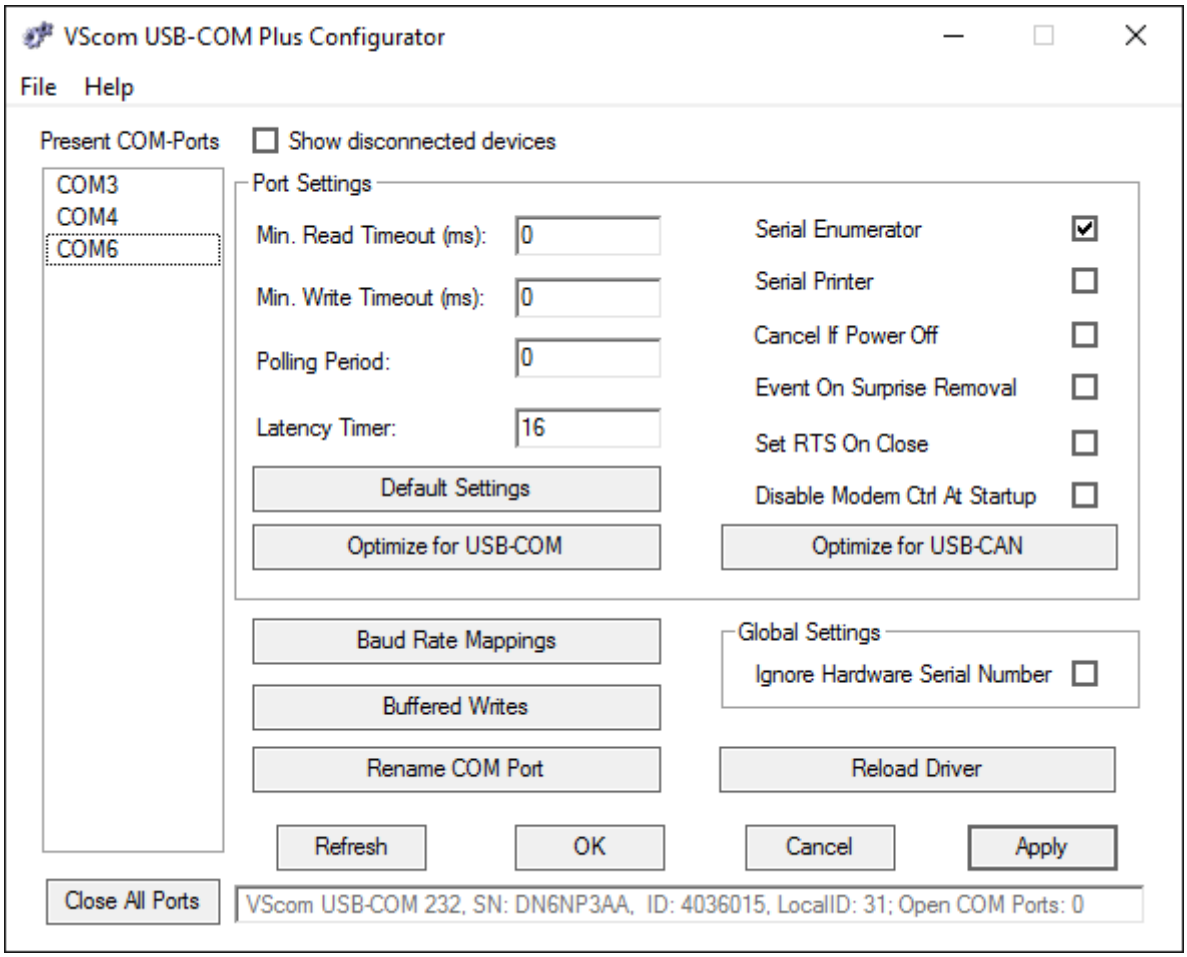

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