

Produkt-Datenblatt

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■ Features

- 1 x RS232/422/485 port
- USB 2.0 Full Speed interface
- USB and serial ports ESD protected
- Robust metal case
- Jumperless, DIP ports configuration
- Serial speed max. 1000(RS232) / 3000(RS485) kbps
- DIN-Rail and Wall mount options
- Bus powered, no external power supply
- Wide range operating temperature (-25°C - +75°C)

USB-COM Plus

■ Overview

The modern USB-COM Plus adapter connects one RS232 or RS422/485 device to your PC by a USB 2.0 Full Speed port. The serial port and USB are ESD protected, compliant to IEC 61000-4-2 (8kV contact/16kV air discharges).

The serial port supports RS232, RS422 and RS485 in Full-/Half-Duplex operation mode. The operation mode of the serial port is easy configured by one DIP switch. The configuration also activates built-in RS485 termination if required, no jumpers needed. Standard Drivers are available for major operating systems.

The USB 2.0 Full-Speed enables serial data rates of up to 3Mbps in RS422/485 or 1000kbps in RS232 modes. The device also allows every non-standard bitrate up to 960 kbps.

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 Full Speed, USB 1.1 compliant
Connector	USB type B
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge

■ Serial Interface

Port	<ul style="list-style-type: none"> ● 1 x RS232/422/485 configured by DIP switch ● RS485 Termination configured by DIP switch ● Polarization/BIAS not required ● Connector DSub-9 male
	<ul style="list-style-type: none"> ● RS232: 180bps - 921.6/1000kbps

Speed	<ul style="list-style-type: none"> • RS422: up to 3Mbps • RS485: up to 3Mbps
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)
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	One DIP switch defines operation mode and RS422/485 termination

■ Software

Driver

- Windows 2000 to Windows 8.1 (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

■ Power and Environment

Connector	USB bus powered, no external supply
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	115×73×25 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.4kg
Mounting	<ul style="list-style-type: none"> • DIN-Rail (optional) • Wall mount (optional)
LEDs	LEDs for Power, Ready, serial Tx, Rx

■ Ordering Information

601	USB-COM Plus (1x RS232/422/485, non-isolated)
603	USB-COM Plus ISO (1x RS232/422/485, isolated)

■ Options

<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female
6692	DK-NCP DIN-Rail mounting kit
6693	WK-NCP Wallmount kit

■ Packaging

Packing list	USB-COM Plus device
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■ **Features**

- 1 x RS232/422/485 port
- USB 2.0 Full Speed interface
- 2.5kV isolation per serial port
- USB and serial ports ESD protected
- Robust metal case
- Jumperless, DIP ports configuration
- Serial speed max. 1000(RS232) / 3000(RS485) kbps
- DIN-Rail and Wall mount options
- Bus powered, no external power supply
- Wide range operating temperature (-25°C - +75°C)

USB-COM Plus ISO

■ **Overview**

The modern USB-COM Plus ISO adapter connects one RS232 or RS422/485 device to your PC by a USB 2.0 Full Speed port. The serial port is isolated for 2.5kV. The serial port and USB are ESD protected, compliant to IEC 61000-4-2 (8kV contact/16kV air discharges).

The serial port supports RS232, RS422 and RS485 in Full-/Half-Duplex operation mode. The operation mode of the serial port is easy configured by one DIP. The configuration also activates built-in RS485 termination if required, no jumpers needed. Standard Drivers are available for major operating systems.

The USB 2.0 Full-Speed enables serial data rates of up to 3Mbps in RS422/485 or 1000kbps in RS232 modes. The device also allows every non-standard bitrate up to 960 kbps.

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 Full Speed, USB 1.1 compliant
Connector	USB type B
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge

■ **Serial Interface**

Port	<ul style="list-style-type: none"> ● 1 x RS232/422/485 configured by DIP switch ● RS485 Termination configured by DIP switch ● Polarization/BIAS not required ● Connector DSub-9 male
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Speed	<ul style="list-style-type: none"> • RS232: 180bps - 921.6/1000kbps • RS422: up to 3Mbps • RS485: up to 3Mbps
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)
Signals	<ul style="list-style-type: none"> • RS232: TxD, RxD, RTS, CTS, GND • RS422: Tx+/-, Rx+/-, GND • RS485 4-wire: Tx+/-, Rx+/-, GND • RS485 2-wire: Data+/-, GND <p>All signals isolated for 2.5kV</p>
Protection	<ul style="list-style-type: none"> • Galvanically isolated 2.5kV • Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Configuration	One DIP switch defines operation mode and RS422/485 termination

■ Software

Driver	<ul style="list-style-type: none"> • Windows 2000 to Windows 8.1 (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

Connector	USB bus powered, no external supply
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	115×73×25 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.4kg
Mounting	<ul style="list-style-type: none"> • DIN-Rail (optional) • Wall mount (optional)
LEDs	LEDs for Power, Ready, serial Tx, Rx

■ Ordering Information

603	USB-COM Plus ISO (1x RS232/422/485, isolated)
601	USB-COM Plus (1x RS232/422/485, non-isolated)

■ Options

661	Serial Null-Modem adapter 9PF-9PF, change male to female
6692	DK-NCP DIN-Rail mounting kit
6693	WK-NCP Wallmount kit

■ Packaging

Packing list

USB-COM Plus ISO device



■ Features

- 2 x RS232/422/485 ports
- USB 2.0 Full Speed interface
- USB and serial ports ESD protected
- Robust metal case
- Jumperless, DIP ports configuration
- Serial speed max. 1000(RS232) / 3000(RS485) kbps
- DIN-Rail and Wall mount options
- Bus powered, no external power supply
- Wide range operating temperature (-25°C - +75°C)

USB-2COM Plus

■ Overview

The modern USB-2COM Plus adapter connects 2 x RS232 or RS422/485 devices to your PC by a USB 2.0 Full Speed port. The serial ports and USB are ESD protected, compliant to IEC 61000-4-2 (8kV contact/16kV air discharges).

All serial ports support RS232, RS422 and RS485 in Full-/Half-Duplex operation mode. The operation modes of the serial ports are easy configured by one DIP switch for each port. The configuration also activates built-in RS485 termination if required, no jumpers needed. Standard Drivers are available for major operating systems. The USB 2.0 Full-Speed enables serial data rates of up to 3Mbps in RS422/485 or 1000kbps in RS232 modes. The device also allows every non-standard bitrate up to 960 kbps.

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 Full Speed, USB 1.1 compliant
Connector	USB type B
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge

■ Serial Interface

Ports	<ul style="list-style-type: none"> ● 2 x RS232/422/485 configured by DIP switch ● RS485 Termination configured by DIP switch ● Polarization/BIAS not required ● Connector DSub-9 male
	<ul style="list-style-type: none"> ● RS232: 180bps - 921.6/1000kbps

Speed	<ul style="list-style-type: none"> • RS422: up to 3Mbps • RS485: up to 3Mbps
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)
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	One DIP switch for each port defines operation mode and RS422/485 termination

■ Software

Driver

- Windows 2000 to Windows 8.1 (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

■ Power and Environment

Connector	USB bus powered, no external supply
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	115×73×25 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.4kg
Mounting	<ul style="list-style-type: none"> • DIN-Rail (optional) • Wall mount (optional)
LEDs	LEDs for Power, Ready, serial Tx, Rx

■ Ordering Information

605	USB-2COM Plus (2x RS232/422/485, non-isolated)
607	USB-2COM Plus ISO (2x RS232/422/485, isolated)

■ Options

661	Serial Null-Modem adapter 9PF-9PF, change male to female
6692	DK-NCP DIN-Rail mounting kit
6693	WK-NCP Wallmount kit

■ Packaging

Packing list	USB-2COM Plus device
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■ Features

- 2 x RS232/422/485 ports
- USB 2.0 Full Speed interface
- 2.5kV isolation per serial port
- USB and serial ports ESD protected
- Robust metal case
- Jumperless, DIP ports configuration
- Serial speed max. 1000(RS232) / 3000(RS485) kbps
- DIN-Rail and Wall mount options
- Bus powered, no external power supply
- Wide range operating temperature (-25°C - +75°C)

USB-2COM Plus ISO

■ Overview

The modern USB-2COM Plus ISO adapter connects 2 x RS232 or RS422/485 devices to your PC by a USB 2.0 Full Speed port. The serial ports are individually isolated for 2.5kV. The serial ports and USB are ESD protected, compliant to IEC 61000-4-2 (8kV contact/16kV air discharges).

All serial ports support RS232, RS422 and RS485 in Full-/Half-Duplex operation mode. The operation modes of the serial ports are easy configured by one DIP switch for each port. The configuration also activates built-in RS485 termination if required, no jumpers needed. Standard Drivers are available for major operating systems. The USB 2.0 Full-Speed enables serial data rates of up to 3Mbps in RS422/485 or 1000kbps in RS232 modes. The device also allows every non-standard bitrate up to 960 kbps.

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 Full Speed, USB 1.1 compliant
Connector	USB type B
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge

■ Serial Interface

Ports	<ul style="list-style-type: none"> ● 2 x RS232/422/485 configured by DIP switch ● RS485 Termination configured by DIP switch ● Polarization/BIAS not required ● Connector DSub-9 male
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Speed	<ul style="list-style-type: none"> • RS232: 180bps - 921.6/1000kbps • RS422: up to 3Mbps • RS485: up to 3Mbps
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)
Signals	<ul style="list-style-type: none"> • RS232: TxD, RxD, RTS, CTS, GND • RS422: Tx+/-, Rx+/-, GND • RS485 4-wire: Tx+/-, Rx+/-, GND • RS485 2-wire: Data+/-, GND <p>All signals isolated for 2.5kV</p>
Protection	<ul style="list-style-type: none"> • Galvanically isolated 2.5kV • Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Configuration	One DIP switch for each port defines operation mode and RS422/485 termination

■ Software

Driver	<ul style="list-style-type: none"> • Windows 2000 to Windows 8.1 (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

Connector	USB bus powered, no external supply
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	115×73×25 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.4kg
Mounting	<ul style="list-style-type: none"> • DIN-Rail (optional) • Wall mount (optional)
LEDs	LEDs for Power, Ready, serial Tx, Rx

■ Ordering Information

607	USB-2COM Plus ISO (2x RS232/422/485, isolated)
605	USB-2COM Plus (2x RS232/422/485, non-isolated)

■ Options

<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female
6692	DK-NCP DIN-Rail mounting kit
6693	WK-NCP Wallmount kit

■ Packaging

Packing list

USB-2COM Plus ISO device



■ **Features**

- 4 x RS232/422/485 ports
- USB 2.0 High Speed interface
- USB, serial ports and power supply ESD protected
- Robust metal case
- Jumperless, software and DIP ports configuration
- Serial speed max. 1000(RS232) / 12000(RS485) kbps
- 19-inch and Wall mount
- Wide range DC-in 9-54V, 4W
- Ports expansion via USB type A connector
- Wide range operating temperature (-25°C - +75°C)

USB-4COM Plus

■ **Overview**

The modern USB-4COM Plus adapter connects 4 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).

All serial ports support RS232, RS422 and RS485 in Full-/Half-Duplex operation mode. The operation modes of the serial ports are either configured by one 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 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 type A connector provides easy serial port expansion by simple concatenation of further USB-COM Plus modules; called "USB-through" function. 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-through	USB 2.0 High Speed, USB 1.1 compliant
Connector	USB type A Used to connect more USB-8COM modules for port expansion.

Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Serial Interface	
Ports	<ul style="list-style-type: none"> • 4 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 DIP switch. Or each port is individually configured by a software:</p> <ul style="list-style-type: none"> • Windows: VScom Application • All OS: Terminal Emulation
Software	
Drivers	<ul style="list-style-type: none"> • Windows 2000 to Windows 8.1 (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>
Power and Environment	
Connector	3-pin industrial Terminal Block (Plus / Minus / Protective Earth)
Power requirements	Wide range DC-in 9 - 54V, 0.35A @ 12V, 4W
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	196×147×44 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.9kg
Mounting	<ul style="list-style-type: none"> • 19-inch Rack • Wall mount
LEDs	LEDs for Power, Ready, serial Tx, Rx
Ordering Information	
609	USB-4COM Plus (4x RS232/422/485, non-isolated, expandable)

611

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

■ Options

6031

DC Power supply adapter 12V @ 1A

[661](#)

Serial Null-Modem adapter 9PF-9PF, change male to female

■ Packaging

Packing list

- USB-4COM Plus device
- Mounting brackets for 19-inch rack
- Wallmount plates
- CD-ROM with configuration software



■ **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
- Jumperless, software and DIP ports configuration
- Serial speed max. 1000(RS232) / 12000(RS485) kbps
- 19-inch and Wall mount
- Wide range DC-in 9-54V, 4W
- Ports expansion via USB type A connector
- Wide range operating temperature (-25°C - +75°C)

USB-4COM Plus ISO

■ **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).

All serial ports support RS232, RS422 and RS485 in Full-/Half-Duplex operation mode. The operation modes of the serial ports are either configured by one 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 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 type A connector provides easy serial port expansion by simple concatenation of further USB-COM Plus modules; called "USB-through" function. 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-through	USB 2.0 High Speed, USB 1.1 compliant
Connector	USB type A Used to connect more USB-8COM modules for port expansion.

Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Serial Interface	
Ports	<ul style="list-style-type: none"> • 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	<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) For configuration details see below ...
Signals	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 DIP switch. Or each port is individually configured by a software: <ul style="list-style-type: none"> • Windows: VScom Application • All OS: Terminal Emulation

Software	
Drivers	<ul style="list-style-type: none"> • Windows 2000 to Windows 8.1 (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

Power and Environment	
Connector	3-pin industrial Terminal Block (Plus / Minus / Protective Earth)
Power requirements	Wide range DC-in 9 - 54V, 0.35A @ 12V, 4W
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	196×147×44 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.9kg
Mounting	<ul style="list-style-type: none"> • 19-inch Rack • Wall mount
LEDs	LEDs for Power, Ready, serial Tx, Rx

■ Ordering Information

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

■ Options

6031	DC Power supply adapter 12V @ 1A
<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female

■ Packaging

Packing list

- USB-4COM Plus ISO device
- Mounting brackets for 19-inch rack
- Wallmount plates
- CD-ROM with configuration software



■ **Features**

- 8 x RS232/422/485 ports
- USB 2.0 High Speed interface
- USB, serial ports and power supply ESD protected
- Robust metal case
- Jumperless, software and DIP ports configuration
- Serial speed max. 1000(RS232) / 12000(RS485) kbps
- 19-inch and Wall mount
- Wide range DC-in 9-54V, 4W
- Ports expansion via USB type A connector
- Wide range operating temperature (-25°C - +75°C)

USB-8COM Plus

■ **Overview**

The modern USB-8COM Plus adapter connects 8 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).

All serial ports support RS232, RS422 and RS485 in Full-/Half-Duplex operation mode. The operation modes of the serial ports are either configured by one 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 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 type A connector provides easy serial port expansion by simple concatenation of further USB-COM Plus modules; called "USB-through" function. 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-through	USB 2.0 High Speed, USB 1.1 compliant
Connector	USB type A Used to connect more USB-8COM modules for port expansion.

Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Serial Interface	
Ports	<ul style="list-style-type: none"> • 8 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 DIP switch. Or each port is individually configured by a software:</p> <ul style="list-style-type: none"> • Windows: VScom Application • All OS: Terminal Emulation
Software	
Drivers	<ul style="list-style-type: none"> • Windows 2000 to Windows 8.1 (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>
Power and Environment	
Connector	3-pin industrial Terminal Block (Plus / Minus / Protective Earth)
Power requirements	Wide range DC-in 9 - 54V, 0.35A @ 12V, 4W
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	196×147×44 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.9kg
Mounting	<ul style="list-style-type: none"> • 19-inch Rack • Wall mount
LEDs	LEDs for Power, Ready, serial Tx, Rx
Ordering Information	
612	USB-8COM Plus (8x RS232/422/485, non-isolated, expandable)

613	USB-8COM Plus ISO (8x RS232/422/485, isolated, expandable)
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■ Options

6031	DC Power supply adapter 12V @ 1A
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<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female
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■ Packaging

Packing list

- USB-8COM Plus device
- Mounting brackets for 19-inch rack
- Wallmount plates
- CD-ROM with configuration software



■ Features

- 8 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
- Jumperless, software and DIP ports configuration
- Serial speed max. 1000(RS232) / 12000(RS485) kbps
- 19-inch and Wall mount
- Wide range DC-in 9-54V, 4W
- Ports expansion via USB type A connector
- Wide range operating temperature (-25°C - +75°C)

USB-8COM Plus ISO

■ Overview

The modern USB-8COM Plus ISO adapter connects 8 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).

All serial ports support RS232, RS422 and RS485 in Full-/Half-Duplex operation mode. The operation modes of the serial ports are either configured by one 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 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 type A connector provides easy serial port expansion by simple concatenation of further USB-COM Plus modules; called "USB-through" function. 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-through	USB 2.0 High Speed, USB 1.1 compliant
Connector	USB type A Used to connect more USB-8COM modules for port expansion.

Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Serial Interface	
Ports	<ul style="list-style-type: none"> • 8 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, GND • RS422: Tx+/-, Rx+/-, GND • RS485 4-wire: Tx+/-, Rx+/-, GND • RS485 2-wire: Data+/-, GND <p>All signals isolated for 2.5kV</p>
Protection	<ul style="list-style-type: none"> • Galvanically isolated 2.5kV • 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 DIP switch. Or each port is individually configured by a software:</p> <ul style="list-style-type: none"> • Windows: VScom Application • All OS: Terminal Emulation

Software	
Drivers	<ul style="list-style-type: none"> • Windows 2000 to Windows 8.1 (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>

Power and Environment	
Connector	3-pin industrial Terminal Block (Plus / Minus / Protective Earth)
Power requirements	Wide range DC-in 9 - 54V, 0.35A @ 12V, 4W
Protection	Compliant with IEC 61000-4-2 ESD 8kV contact / 16kV air discharge
Dimension	196×147×44 mm ³ (W×L×H)
Operating Temp	-25°C - 75°C
Storage Temp	-30°C – 85°C
Case	SECC sheet metal (0.8mm)
Weight	0.9kg
Mounting	<ul style="list-style-type: none"> • 19-inch Rack • Wall mount
LEDs	LEDs for Power, Ready, serial Tx, Rx

■ Ordering Information

613	USB-8COM Plus ISO (8x RS232/422/485, isolated, expandable)
612	USB-8COM Plus (8x RS232/422/485, non-isolated, expandable)

■ Options

6031	DC Power supply adapter 12V @ 1A
<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female

■ Packaging

Packing list

- USB-8COM Plus ISO device
- Mounting brackets for 19-inch rack
- Wallmount plates
- CD-ROM with configuration software