

Model Information



■ Main Features

- USB 2.0 to 1 x RS232 port
- High-Speed Serial port 460.8kbps
- 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)
- Small metal housing and Bus powered
- DIN-Rail and Wall mountable
- Wide range operating temperature

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USB-COM ECO USB-COM ECO ISO (USB-COM-M, USB-COM SI-M)

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■ More Pictures



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■ Overview

USB-COM ECO provides easy serial port expansion over USB 2.0 connecting to RS232 devices. It is fully ESD and surge protected, bus powered and accommodated in a very small metal housing. It works over a wide temperature range to cope with harsh operating conditions. The ISO version is electrically isolated to withstand unbalanced ground loops arising in hazardous industrial fields. DIN-Rail and Wall-mounting options are available.

Easy Serial Port Configuration

The serial port fully supports 9 x signals RS232 protocol in the non-ISO version, whereas the ISO-version uses 4 x signals only. LEDs for PWR and TxD/RxD show activity status for the user. Com Port Drivers are available for Windows, Linux and Mac OS X. A configuration tool, called, USB-COM Configurator, allows easy access to special Windows driver options to optimise settings and performance.

High Speed and Electrical Isolation

USB 2.0 Full Speed connection allows serial data rates of up to 460.8kbps. Every non-standard bitrate (e.g. 31250bps for MIDI) can be easily set up.

USB-COM ECO is fully ESD and surge protected at USB and serial port interfaces. Serial port is additionally 2.5kV electrical isolated (ISO-version only), which makes it ideal for deployment in hazardous industrial environments.

■ USB Interface

USB-Input

USB 2.0 Full Speed, USB 1.1 compliant

Connector	USB type B
Circuits	FTDI FT231XS
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■ Serial Interface	
No. of Ports/Type	1 x RS232
Connector	DB-9 male
Protection	<ul style="list-style-type: none"> • 16kV ESD surge protection • 2.5kV Electrical isolation on ISO version
Signals non-ISO	TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND
Signals ISO	TxD, RxD, RTS, CTS, GND
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Even, Odd, Mark, Space
Flow Control	RTS/CTS, XON/XOFF
Baudrate	180bps - 460.8/500kbps
LEDs	TxD/RxD for each port
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■ Software	
Drivers	<ul style="list-style-type: none"> • 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	max 50mA, 250mW
Connector	USB Type B, bus powered, no external supply
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■ Housing and Mounting	
Case	0.8mm sheet metal
Weight	150g, w/h box 0.3kg
Dimensions	50×72×22 mm ³ (W×L×H) Case 72×72×22 mm ³ (W×L×H) with mounting wings
Packaged	85×122×55 mm ³
Mounting	Desktop use <ul style="list-style-type: none"> • DIN-Rail (optional) • Wall mount
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■ Environmental Data	
Operating Temp	-25°C - 75°C
Storage Temp	-30°C - 85°C
Ambient Humidity	5-95% non condensing
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■ Standards	
Declarations	CE, FCC
EMI	<ul style="list-style-type: none"> • EN 55022 Class B • 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 Port
 - USB

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184.3 Years @ 25°C
94.6 Years @ 45°C

Standard

Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7

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2 years

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USB-COM ECO (1x RS232, non-isolated)

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USB-COM ECO ISO (1x RS232, isolated)

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DK 35A DIN-Rail mounting kit

661

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

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- USB-COM ECO device
- USB 2.0 High-Speed cable
- 4 rubber feet for table mode

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USB-COM ECO ISO
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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
COM4
COM6

Port Settings

Min. Read Timeout (ms): Serial Enumerator

Min. Write Timeout (ms): Serial Printer

Polling Period: Cancel If Power Off

Latency Timer: Event On Surprise Removal

Set RTS On Close

Disable Modem Ctrl At Startup

Default Settings

Optimize for USB-COM

Optimize for USB-CAN

Baud Rate Mappings

Buffered Writes

Rename COM Port

Global Settings

Ignore Hardware Serial Number

Reload Driver

Refresh OK Cancel Apply

Close All Ports

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

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