

## Model Information



### ■ Main Features

- USB 2.0 to 2 x RS232 ports
- High-Speed Serial ports 460.8kbps
- Driver for Windows, Linux, Mac OS X
- LEDs for Power and TxD/RxD activity
- ESD protection on USB and serial ports
- Small metal housing and Bus powered
- DIN-Rail and Wall mount options
- Wide range operating temperature

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# USB-2COM ECO (USB-2COM-M)

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### ■ More Pictures



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### ■ Overview

USB-2COM ECO provides easy serial port expansion over USB 2.0 connecting to RS232 devices over RJ45 connectors. 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. DIN-Rail and Wall-mounting options are available.

RJ45-to-DB9M adapters needed to change wiring from CAT5 to DB9 are included. The customer supplies his own cables in suitable length.

#### Serial Ports Configuration

The serial ports fully support 8 x signals RS232 protocol. LEDs for PWR and TxD/RxD show the 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 setting and performance.

#### High Speed Rates and ESD Protection

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.

### ■ USB Interface

|                  |                                       |
|------------------|---------------------------------------|
| <b>USB-Input</b> | USB 2.0 Full Speed, USB 1.1 compliant |
| <b>Connector</b> | USB type B                            |
| <b>Circuits</b>  | FTDI FT2232D                          |

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### ■ Serial Interface

|                          |   |
|--------------------------|---|
| <b>No. of Ports/Type</b> | 2 x RS232   |
| <b>Connector</b>         | RJ45 (8P8C) 8 pin<br>2 x RJ45-to-DB9M Adapters to change to DB9 wiring included |
| <b>Protection</b>        | 16kV ESD surge protection   |
| <b>Signals</b>           | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  |
| <b>Data Bits</b>         | 7, 8  |
| <b>Stop Bits</b>         | 1, 2  |
| <b>Parity</b>            | None, Even, Odd, Mark, Space  |
| <b>Flow Control</b>      | RTS/CTS, XON/XOFF   |
| <b>Baudrate</b>          | 180bps - 460.8/500kbps  |
| <b>LEDs</b>              | bicolour TxD/RxD for each port  |

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## ■ Software

|                     |  |
|---------------------|--|
| <b>Drivers</b>      | <ul style="list-style-type: none"> <li>Windows 2000 to Windows 10 (x86 and x64)</li> <li>Windows Server 2000 to 2016 (x86 and x64)</li> <li>Linux (Kernel 3.4 and later built-in)</li> <li>Mac OS X</li> </ul> |
| <b>Installation</b> | The driver is already installed (Linux), or installs by automatic Download after Device connection (Windows).  |

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## ■ Power Requirement

|                          |   |
|--------------------------|---|
| <b>Input Voltage</b>     | 5V (USB)                                    |
| <b>Power Consumption</b> | max 60mA, 300mW                             |
| <b>Connector</b>         | USB Type B, bus powered, no external supply |

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## ■ Housing and Mounting

|                   |   |
|-------------------|---|
| <b>Case</b>       | 0.8mm sheet metal   |
| <b>Weight</b>     | 150g, w/h box 0.3kg   |
| <b>Dimensions</b> | 50×72×22 mm <sup>3</sup> (W×L×H) Case<br>72×72×22 mm <sup>3</sup> (W×L×H) with mounting wings         |
| <b>Packaged</b>   | 85×122×55 mm <sup>3</sup>   |
| <b>Mounting</b>   | Desktop use <ul style="list-style-type: none"> <li>DIN-Rail (optional)</li> <li>Wall mount</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

|                       |   |
|-----------------------|---|
| <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 Ports</li> <li>USB</li> </ul>   | <a href="#">&gt;Back to top</a> |
| <b>■ MTBF (Mean Time Between Failures)</b> |  |                                 |
| <b>MTBF</b>                                | 139.2 Years @ 25°C<br>73.7 Years @ 45°C  |                                 |
| <b>Standard</b>                            | Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7   | <a href="#">&gt;Back to top</a> |
| <b>■ Warranty</b>                          |  |                                 |
| <b>Warranty Period</b>                     | 2 years  | <a href="#">&gt;Back to top</a> |
| <b>■ Ordering Information</b>              |  |                                 |
| <b>614</b>                                 | USB-2COM ECO (2x RS232)  | <a href="#">&gt;Back to top</a> |
| <b>■ Options</b>                           |  |                                 |
| <a href="#">662</a>                        | DK 35A DIN-Rail mounting kit   |                                 |
| <a href="#">661</a>                        | Serial Null-Modem adapter 9PF-9PF, change male to female   | <a href="#">&gt;Back to top</a> |
| <b>■ Packaging</b>                         |  |                                 |
| <b>Packing list</b>                        | <ul style="list-style-type: none"> <li>USB-2COM ECO device</li> <li>USB 2.0 High-Speed cable</li> <li>2 adapters RJ45-TO-DB9M</li> <li>4 rubber feet for table mode</li> </ul> | <a href="#">&gt;Back to top</a> |

\* Specifications are subject to change without notice.

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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

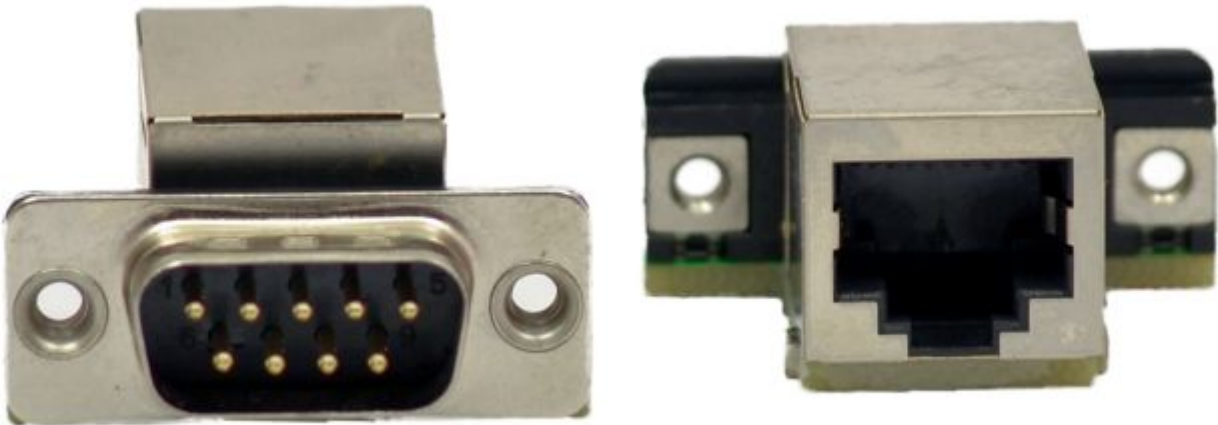
Refresh OK Cancel Apply

Close All Ports

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

## Adapter to DB9 male (via Cat5)

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(2022 Nov 08)