

## Bild / Picture



### 1x seriell RS-232/422/485 zu Ethernet Metallgehäuse

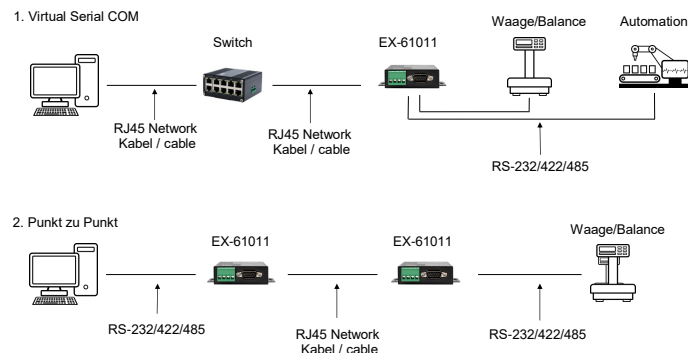
## Beschreibung

Der EX-61011 ist ein serieller Multiprotokoll RS-232/422/485 Geräteserver zur Integration von seriellen RS-232/422/485 Geräten, wie z.B. Barcodescanner, Wägesysteme und Zahlungsterminals, in ein IP-basiertes Ethernet-Netzwerk. Die seriellen Geräte sind mit dem Netzwerk verbunden und stehen für die gemeinsame Nutzung im Subnetz und im Internet zur Verfügung. Es werden umfangreiche Netzwerkprotokolle wie TCP Server, TCP Client, UDP, VCOM, Remote-Pair-Master-Slave, Modbus Server, Modbus Client und SNMP unterstützt. Darüber hinaus können serielle Geräte mit Remote-Pair-Master-Slave-Modus über den Peer-to-Peer-Modus miteinander kommunizieren, ohne dass ein zwischengeschalteter PC oder eine Konvertierungssoftware erforderlich ist. Mit der zum Download verfügbaren Virtual COM (VCOM) Software kann auf Windows-Rechnern für jedes serielle Gerät eine perfekt migrierte virtuelle serielle Schnittstelle erstellt werden.

## Merkmale

|                                                                      |                                                                                                                  |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| • Schnittstelle RS-232 V.24/422/485                                  |                                                                                                                  |
| • Daten Bits: 5, 6, 7, 8 / Stop Bits: 1, 2 / Parity: None, Even, Odd |                                                                                                                  |
| • Signale:                                                           | RS-232: TXD, RXD, RTS, CTS, und GND<br>RS-422: TXD+, TCD-, RXD+ RXD-, GND<br>RS-485: 2 Draht - Data+, Data-, GND |
| • Ethernet Protokoll:                                                | ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, MODBUS                                                                      |
| • Betriebsart:                                                       | VCOM, TCP Server, TCP Client, UDP, Modbus TCP Server, Modbus TCP Client                                          |
| • Direktzugriff über Socket Port                                     |                                                                                                                  |
| • Punkt zu Punkt Verbindung, benötigt keine Software                 |                                                                                                                  |
| • Inklusive Virtual COM Software (Download)                          |                                                                                                                  |
| • Robustes Metallgehäuse, inkl. Wandmontagebügel                     |                                                                                                                  |
| • Erweiterter Betriebstemperaturbereich -40 bis 85 °C                |                                                                                                                  |

## Anwendung / Application



### 1x serial RS-232/422/485 to Ethernet, Metal housing

## Description

The EX-61011 is a multiprotocol RS-232/422/485 serial device server for integrating RS-232/422/485 serial devices, such as barcode scanners, weighing systems and payment terminals, into an IP-based Ethernet network. The serial devices are connected to the network and are available for sharing on the subnet and the Internet. Extensive network protocols such as TCP Server, TCP Client, UDP, VCOM, Remote Pair Master Slave, Modbus Server, Modbus Client and SNMP are supported. In addition, serial devices with remote pair master-slave mode can communicate with each other via peer-to-peer mode without the need for an intermediate PC or conversion software. With the Virtual COM (VCOM) software available for download, a perfectly migrated virtual serial port can be created on Windows computers for each serial device.

## Features

|                                                                     |                                                                                                                 |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| • Interface: RS-232 V.24/422/485                                    |                                                                                                                 |
| • Data Bits: 5, 6, 7, 8 / Stop Bits: 1, 2 / Parity: None, Even, Odd |                                                                                                                 |
| • Signal:                                                           | RS-232: TXD, RXD, RTS, CTS, und GND<br>RS-422: TXD+, TCD-, RXD+ RXD-, GND<br>RS-485: 2 wire - Data+, Data-, GND |
| • Ethernet Protocol:                                                | ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, MODBUS                                                                     |
| • Operation Mode:                                                   | VCOM, TCP Server, TCP Client, UDP, Modbus TCP Server, Modbus TCP Client                                         |
| • Direct connection with Socket Port                                |                                                                                                                 |
| • Point to point connection, no software required                   |                                                                                                                 |
| • Virtual COM Software included (Download)                          |                                                                                                                 |
| • Rugged metal housing, wall-mount brackets included                |                                                                                                                 |
| • Extended operating temperature range: -40 to 85 °C                |                                                                                                                 |

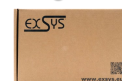
## System / OS



## Geprüft / Approved



## Verpackung / Packaging



## Spezifikation

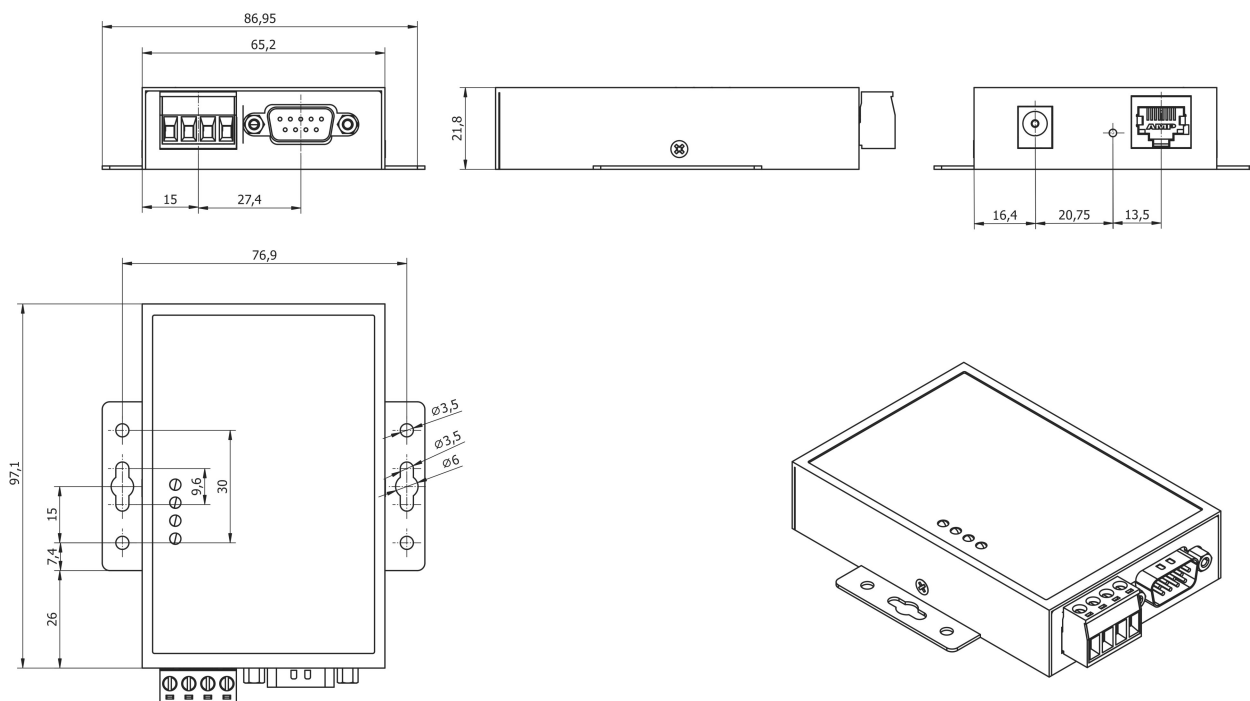
## Specification

|                                          |                                                                                                                           |                                           |                                                                                                                       |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Datentransfer-Rate:</b>               | Seriell RS-232/422/485: bis 921.6KBaud<br>Ethernet: 10/100Mbps                                                            | <b>Data transfer rate:</b>                | Serial RS-232/422/485: up to 921.6KBaud<br>Ethernet: 10/100Mbps                                                       |
| <b>Anschlüsse:</b>                       | 1x RS-232 9-Pin Stecker<br>1x RS-422/485 4-Pin Terminal Block<br>1x RJ45 Ethernet<br>1x +9V bis 30V DC-Jack (5.5 x 2.1mm) | <b>Connectors:</b>                        | 1x RS-232 9-pin male<br>1x RS-422/485 4-pin Terminal Block<br>1x RJ45 Ethernet<br>1x +9V to 30V DC-Jack (5.5 x 2.1mm) |
| <b>Hardwaresysteme:</b>                  | Ethernet 10/100/1000Mbps                                                                                                  | <b>Hardware system:</b>                   | Ethernet 10/100/1000Mbps                                                                                              |
| <b>VCOM unterstützt Betriebssysteme:</b> | Windows XP/Vista/7/8.x/10/11 (32/64Bit)                                                                                   | <b>VCOM support the Operating System:</b> | Windows XP/Vista/7/8.x/10/11 (32/64bit)                                                                               |
| <b>Betriebssysteme:</b>                  | Alle über IP und Port Nummer (Direktzugriff über Socket Port)                                                             | <b>Operating systems:</b>                 | All via IP and port number (direct access via socket port)                                                            |
| <b>Betriebstemperatur :</b>              | -40°C bis +85°C                                                                                                           | <b>Operating temperature :</b>            | -40°F up to 185°F                                                                                                     |
| <b>Lagertemperatur:</b>                  | -40°C bis +85°C                                                                                                           | <b>Storage temperature:</b>               | -40°F up to 185°F                                                                                                     |
| <b>Rel. Luftfeuchtigkeit:</b>            | 5% bis 95%, nicht kondensierend                                                                                           | <b>Rel. Humidity:</b>                     | 5% to 95%, non-condensing                                                                                             |
| <b>Schutzklasse:</b>                     | IP 30                                                                                                                     | <b>Protection class:</b>                  | IP 30                                                                                                                 |
| <b>Stromversorgung:</b>                  | +12V / 1A                                                                                                                 | <b>Current Supply:</b>                    | +12V / 1A                                                                                                             |
| <b>Stromverbrauch:</b>                   | 160mA@12V                                                                                                                 | <b>Power consumption:</b>                 | 160mA@12V                                                                                                             |
| <b>Abmessung:</b>                        | 102.00 x 87.00 x 22.00 mm                                                                                                 | <b>Size:</b>                              | 102.00 x 87.00 x 22.00 mm                                                                                             |
| <b>Gewicht:</b>                          | 121 g                                                                                                                     | <b>Weight:</b>                            | 121 g                                                                                                                 |
| <b>EAN:</b>                              | 4718359610110                                                                                                             | <b>EAN:</b>                               | 4718359610110                                                                                                         |
| <b>Ursprungsland:</b>                    | China                                                                                                                     | <b>Country of origin:</b>                 | China                                                                                                                 |
| <b>Lieferumfang:</b>                     | EX-61011, Netzteil 12V/1A, DB9-Kabel, Handbuch                                                                            | <b>Packaging contents:</b>                | EX-61011, Power Supply 12V/1A, DB9 cable, Manual                                                                      |

## Produkt Zertifikation / Product Certification

|     |                                                                                                                                                                                                                                                                                                                                                                    |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC | 55032/24                                                                                                                                                                                                                                                                                                                                                           |
| EMI | Class A                                                                                                                                                                                                                                                                                                                                                            |
| EMS | IEC61000-4-2 ESD: Contact 4kV, AIR 8kv<br>IEC61000-4-3 RS: 80MHz-1GHz 3V/m<br>IEC61000-4 EFT: Power 1kV, Signal 0.5kV<br>IEC61000-4-5 Surge: Power differential mode 1KV, common mode 2KV (8/20)<br>Ethernet port differential mode 1KV, common mode 2KV (10/700)<br>RS-232/485/422 differential mode 0.5KV, common mode 1KV<br>IEC61000-4-6 CS: 150KHz-80MHz 3V/m |

## Maße / Dimension



## Bilder / Picture



## Vergleichstabelle / Comparison Chart

| Model No. | Serielle Schnittstelle/<br>Serial Interface | Anschlüsse/<br>Ports | Optical<br>Isolation | Powered<br>by PoE<br>(PD) | Anschlussart/<br>Connector(s) | Input Power<br>(DC) | Netzteil /<br>Power Supply | Wall and DIN Rail<br>Mounting Options |
|-----------|---------------------------------------------|----------------------|----------------------|---------------------------|-------------------------------|---------------------|----------------------------|---------------------------------------|
| EX-61001  | RS-232/RS-422/485                           | 1                    | -                    | -                         | Male DB9 / TB / RJ45          | 12V - 48V           | 12V / 1A                   | ✓                                     |
| EX-61002  | RS-232/RS-422/485                           | 2                    | -                    | -                         | Male DB9 / RJ45               | 12V - 48V           | 12V / 1A                   | ✓                                     |
| EX-61004  | RS-232/RS-422/485                           | 4                    | -                    | -                         | Male DB9 / RJ45               | 12V - 48V           | 12V / 1A                   | ✓                                     |
| EX-61008  | RS-232/RS-422/485                           | 8                    | -                    | -                         | Male DB9 / RJ45               | 12V - 48V           | 12V / 1A                   | ✓                                     |
| EX-61011  | RS-232/RS-422/485                           | 1                    | -                    | -                         | Male DB9 / TB / RJ45          | 9V - 30V            | 12V / 1A                   | ✓ / o                                 |