

Data sheet:

# Com-Server Highspeed 20mA



Article no.: 58642

This article has been replaced by the improved successor model [Com-Server 20mA, #58664](#).

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## 1 serial 20mA/TTY port to the Power-over-Ethernet network

The Com-Server Highspeed 20mA integrates a serial 20mA/TTY device into the network via TCP/IP Ethernet. Numerous network services are available for communication.

### Differences between the models:

	Old: Com-Server Highspeed 20mA, 58642	Current: Com-Server 20mA, 58664
Serial port:	1 x 20mA/TTY interface DB9 connector plug	
Baud rate:	50 to 19,200 baud	
Data format:	7, 8 data bits, 1, 2 stop bits No, even, odd parity	
Flow control:	XON/XOFF protocol or can be suppressed	
Network:	10/100BT autosensing	
Galvanic isolation:	min. 500 volts	min. 1500 volts
Supply voltage:	DC 12V .. 48V (+/-10%)	
Current consumption:	typ. 100mA @24V DC	typ. 90mA @24V DC
Supply voltage connection:	Plug-in screw terminal, 5.08mm spacing	
Ambient temperature:	Storage: -40..+70°C Operating with spacing: 0..+60°C	Storage: -40..+70°C Operation: 0..+60°C
Permissible relative humidity:	0..95% RH (non-condensing)	
Housing:	Plastic compact housing for top-hat rail mount. 105x75x22mm	
Weight:	approx. 200 g	
Wake-on-LAN	no	yes
Multipoint mode	no	yes

	Old:	Current:
	Com-Server Highspeed 20mA, 58642	Com-Server 20mA, 58664
Packeting options	no	yes

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## Properties

### Interfaces:

- **1x 20mA/TTY interface**
  - Active/passive mode can be independently set for send and receive loop
  - Half-duplex mode with automatic echo suppression
  - Galvanic isolation in all modes
  - Serial transmission speed up to 19.2 kbps
- **1x Ethernet 10/100BaseT**
  - Autosensing
- **alternate hardware configuration**
  - for RS232/422/485 version, see [Com-Server ++](#)

### Management and connectivity:

- **Remote configuration**
  - Startup using WuTility (three clicks and you're done), DHCP, serial
  - Web-Based-Management
  - Telnet
  - Control sockets from your own applications
- **Transparent communication**
  - Windows COM Port Redirector and virtual COM ports
  - Box-to-Box
  - TCP server sockets from your own applications
  - OPC server
- **Expanded protocol support**
  - FTP client / server
  - Telnet client / server
  - UDP Peer
  - SLIP

### Power supply:

- **External**
  - Screw terminals, 12V-48V DC
- **Power-over-Ethernet (PoE)**
  - Phantom power using data pairs
  - Power over unused wire pairs

### Standards & more

- **Conforms to standards both in office and industrial environments:**
  - High noise resistance per EN 61000-6-2
  - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**

## Run modes

### Windows COM Port Redirector:

Install the COM Port Redirector and configure your serial program on one of the virtual COM ports - that's all there is to it! Regardless of whether as a replacement for missing hardware COM ports, a solution for virtual environments like VMware, HyperV, etc., or as a simple line driver, your serial communication becomes network capable without a single line of programming. Multipoint mode and packaging options are of course also available here.

[Data sheet with download link](#)

### Box-to-Box:

In just a few clicks you can link 2 Com-Servers to each other logically and use an operating-system neutral, transparent and if desired TLS encrypted data tunnel through the network. Serial data are sent bi-directional and as fast as possible to the respective counterpart. Automatic reconnect functions in case of connection faults/dropouts are available as are multipoint operation and packeting options for fine tuning when using serial protocols.

To [application example ...](#)

### TCP/UDP socket communication:

Network programming today belongs to the standard repertoire of all programmers. Integrate your serial device simply into your own network application. Take as a TCP client control of the connection into your own hands, be contacted as a TCP server using event-driven control, or use the efficient, contactless UDP protocol. The new multipoint mode and packaging options are of course available here also.

To [application example ...](#)

### FTP client/server:

Send and archive your serial data with the FTP standard tools on most operating systems. Serial outputs from scales, barcode readers etc. or status and error messages for example from UPSs are classic applications for the use of Com-Servers as FTP server or FTP client.

To [application example ...](#)

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## Technical data

### Connections and displays:

Serial port:	1x 20mA/TTY interface DB9 connector plug 50 to 19,200 baud 7,8 data bits 1,2 stop bits Parity No, Even, Odd Flow control No, Xon/Xoff
Serial modes:	20mA/TTY
Network:	10/100BaseT autosensing RJ45 IPv6 on request
Galvanic isolation:	Network connection min. 1500 V
Power supply:	Power-over-Ethernet (PoE) or DC 12V .. 48V (+/-10%) or AC 18Veff .. 30Veff (+/-10%)
Supply connection:	Plug-in screw terminal, 5.08mm spacing Labeled "L+" and "M"
Current consumption:	PoE Class 1 (0.44 - 3.84W) typ. 100mA @24V DC
Displays:	1 LED Power 1 LED Status 1 LED Error

### Housing and other data:

Housing:	Plastic compact housing for top-hat rail mount 105x22x75mm (LxWxH)
Enclosure rating:	IP20
Weight:	approx. 120g
Ambient temperature:	Storage: -40..+70°C Operating when not cascaded: 0..+60°C (0..+70° on request) Operating cascaded: 0..+50°C
Permissible relative humidity:	5..95% RH, non-condensing
Scope of delivery:	1x Com-Server Highspeed 20mA 1x Quick Guide 1x product CD with COM Port Redirector, WuTility management tool, manual, German/English



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