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# FL COMSERVER BASIC 232/422/485

Order No.: 2313478




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2313478>

FL COMSERVER BASIC..., serial devices server to convert a serial RS-232/422/485 interface to Ethernet, supports TCP, UDP applications, incl. CD-ROM with Com Port Redirector Software and user documentation (PDF).

<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

## Commercial data

|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| GTIN (EAN)               |  |
| sales group              | H651                                                                                |
| Pack                     | 1 pcs.                                                                              |
| Customs tariff           | 85176200                                                                            |
| Catalog page information | Page 533 (IF-2009)                                                                  |

## Technical data

### Serial interface

|                           |                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------|
| Interface 1               | Ethernet interface, 10/100BASE-T(X) in acc. with IEEE 802.3u                           |
| Transmission length       | 100 m (shielded twisted pair)                                                          |
| Type of connection        | RJ45 female connector, shielded                                                        |
| Serial transmission speed | 10/100 Mbps, autonegotiation                                                           |
| Interface 2               | V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1              |
| File format/coding        | Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length |

|                                          |                                                                                                                                 |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Termination resistor                     | 390 Ω - 180 Ω - 390 Ω (can be connected)                                                                                        |
| Type of connection                       | D-SUB-9 male connector                                                                                                          |
| Data flow control/protocols              | Software handshake, Xon/Xoff or hardware handshake RTS/CTS                                                                      |
| Serial transmission speed                | 300, 600, 1200, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 187500, 230400 Bit/s, can be set with web-based management |
| Interface 3                              | RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1                                                              |
| Type of connection                       | Plug-in/screw connection via COMBICON                                                                                           |
| Termination resistor                     | 390 Ω - 180 Ω - 390 Ω (can be connected)                                                                                        |
| File format/coding                       | Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length                                          |
| Data flow control/protocols              | Automatic control                                                                                                               |
| Interface 4                              | RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire                                                           |
| Interface                                | RS-485                                                                                                                          |
| Type of connection                       | Plug-in/screw connection via COMBICON                                                                                           |
| Termination resistor                     | 390 Ω - 180 Ω - 390 Ω (can be connected)                                                                                        |
| File format/coding                       | Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length                                          |
| Data flow control/protocols              | Automatic control                                                                                                               |
| <b>Power supply</b>                      |                                                                                                                                 |
| Nominal supply voltage                   | 24 V DC ±20 % (via pluggable COMBICON screw terminal block)                                                                     |
|                                          | 24 V DC ±5% (as an alternative or redundant, via backplane bus contact and system current supply)                               |
| Typical current consumption              | 100 mA (24 V DC)                                                                                                                |
| <b>General data</b>                      |                                                                                                                                 |
| Width                                    | 22.5 mm                                                                                                                         |
| Height                                   | 99 mm                                                                                                                           |
| Depth                                    | 114.5 mm                                                                                                                        |
| Ambient temperature (storage/transport)  | -25 °C ... 70 °C                                                                                                                |
| Ambient temperature (operation)          | -25 °C ... 60 °C                                                                                                                |
| Electrical isolation                     | Supply // Ethernet (TP) // Serial                                                                                               |
| Test voltage data interface/power supply | 1.5 kV <sub>rms</sub>                                                                                                           |
| Electromagnetic compatibility            | Conformance with EMC Directive 2004/108/EC                                                                                      |
| Noise emission                           | EN 61000-6-4                                                                                                                    |
| Noise immunity                           | EN 61000-6-2:2005                                                                                                               |

|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Degree of protection | IP20                                                                                                     |
| Net weight           | 190 g                                                                                                    |
| Housing material     | PA 6.6-FR                                                                                                |
| Color                | green                                                                                                    |
| MTBF                 | 666 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))     |
|                      | 179 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |
| Conformance          | CE-compliant                                                                                             |

#### Function

|                                  |                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Management                       | Web-based management, SNMP, emergency exit with Telnet and serial                                                                                  |
| Status and diagnostic indicators | LEDs: UL (logic voltage), TD + RD (data activity serial), FD (full duplex), 100 (100 Mbps mode), Link (Ethernet), Activity (Ethernet), ERR (error) |

#### Certificates / Approvals



Certification

CUL Listed, UL Listed

#### Accessories

| Item            | Designation | Description                                                |
|-----------------|-------------|------------------------------------------------------------|
| <b>Assembly</b> |             |                                                            |
| 2853899         | ME-SAS      | Shield connection clamp for printed circuit terminal block |

#### Cable/conductor

|         |                     |                                                                                                                                                                                                                                                                                   |
|---------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2881078 | CM-KBL-RS232/USB    | Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.                                                                                                                                                                                                                |
| 2744827 | FL CAT5 HEAVY CONF/ | CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm <sup>2</sup> , solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line |
| 2832263 | FL CAT5 PATCH 0,5   | Patch cable, CAT5, assembled, 0.5 m                                                                                                                                                                                                                                               |
| 2832580 | FL CAT5 PATCH 5,0   | Patch cable, CAT5, assembled, 5.0 m                                                                                                                                                                                                                                               |

|         |                              |                                                                                                                                                                            |
|---------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2761059 | PSM-KA 9 SUB 25/BB/2METER    | RS-232 cable, 9-pos. D-SUB female connector 25-pos on D-SUB female connector                                                                                               |
| 2799474 | PSM-KA9SUB9/BB/2METER        | RS-232 cable, 9-pos. D-SUB female connector on 9-pos. D-SUB female connector, 9-wire, 1:1                                                                                  |
| 2319200 | PSM-KAD-IL RS232/9SUB/B/0,8M | Adapter cable to connect the IB IL RS232 and IB IL RS232-PRO Inline communication terminals to the interface converter, e.g. modem, Com server, Bluetooth or fiber optics. |

#### General

|         |                                |                                                                                                 |
|---------|--------------------------------|-------------------------------------------------------------------------------------------------|
| 2891246 | FL PATCH SAFE CLIP             | Security element for FL patch cable                                                             |
| 2707437 | ME 22,5 TBUS 1,5/ 5-ST-3,81 GN | DIN rail connector for current transducers, gold-plated contacts, for DIN rail mounting, 5-pos. |
| 2866983 | MINI-SYS-PS-100-240AC/24DC/1.5 | DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A         |

#### Software

|         |        |                                                                                                           |
|---------|--------|-----------------------------------------------------------------------------------------------------------|
| 2831044 | FL SWT | Factory Manager, multilingual, configuration and diagnostics software for ETHERNET networks in automation |
|---------|--------|-----------------------------------------------------------------------------------------------------------|

#### Tools

|         |               |                                                                                                                                                       |
|---------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1204517 | SZF 1-0,6X3,5 | Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip |
|---------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

**Address**

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