

# Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Second generation FL COMSERVER BASIC..., serial device server for converting a serial RS-232/422/485 interface to Ethernet, only supports TCP and UDP applications, incl. CD-ROM Com port redirector software and user documentation (PDF)

## Product Features

- Reasonably-priced version
- Software for virtual COM ports supplied as standard
- TCP and UDP support
- Configuration via web-based management
- All connections can be plugged in using a COMBICON screw terminal block



## Key commercial data

package_quantity	1
GTIN	4046356451314

## Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

## Dimensions

Width	22.5 mm
Height	99 mm
Depth	116 mm

## Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (operation)	-20 °C ... 60 °C (With UL approval)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (no condensation)
Permissible humidity (storage/transport)	5 % ... 95 % (no condensation)
Altitude	5000 m (For restrictions see manufacturer's declaration)
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

# Interface converters - FL COMSERVER BASIC

## 232/422/485 - 2313478

### Technical data

#### Serial interface

<b>Interface 1</b>	Ethernet interface, 10/100BASE-T(X) in acc. with IEEE 802.3u
<b>Interface</b>	Ethernet
<b>Connection method</b>	RJ45 socket, shielded
<b>Transmission length</b>	≤ 100 m (shielded twisted pair)
<b>Protocols supported</b>	TCP/IP, UDP
<b>Auxiliary protocols</b>	ARP, DHCP, BOOTP, SNMP, RIP, RARP, HTTP, TFTP
<b>Serial transmission speed</b>	10/100 Mbps, autonegotiation
<b>Interface 2</b>	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
<b>Interface</b>	V.24 (RS-232)
<b>Connection method</b>	D-SUB-9 male connector
<b>File format/coding</b>	UART/NRZ: 7/8 bit data, 1/2 bit stop, 1 bit parity
<b>Transmission length</b>	15 m
<b>Pin assignment</b>	DTE/DCE switchover via web-based management
<b>Data flow control/protocols</b>	Software handshake, Xon/Xoff or hardware handshake RTS/CTS
<b>Serial transmission speed</b>	0.3; 0.6; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 38.4; 57.6; 115.2; 187.5; 230.4 kbps
<b>Interface 3</b>	RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1
<b>Interface</b>	RS-422
<b>Connection method</b>	Plug-in/screw connection via COMBICON
<b>File format/coding</b>	Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length
<b>Transmission length</b>	≤ 1200 m
<b>Termination resistor</b>	390 Ω (configurable)
<b>Termination resistor</b>	180 Ω
<b>Termination resistor</b>	390 Ω
<b>Data flow control/protocols</b>	Automatic control
<b>Serial transmission speed</b>	0.3; 0.6; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 38.4; 57.6; 115.2; 187.5; 230.4; 500; 1000 kbps
<b>Interface 4</b>	RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire
<b>Interface</b>	RS-485
<b>Connection method</b>	Plug-in/screw connection via COMBICON
<b>File format/coding</b>	UART/NRZ: 7/8 bit data, 1/2 bit stop, 1 bit parity
<b>Termination resistor</b>	390 Ω (configurable)
<b>Termination resistor</b>	180 Ω
<b>Termination resistor</b>	390 Ω
<b>Data flow control/protocols</b>	Automatic control
<b>Serial transmission speed</b>	0.3; 0.6; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 38.4; 57.6; 115.2; 187.5; 230.4; 500; 1000 kbps

#### Power supply

# Interface converters - FL COMSERVER BASIC

## 232/422/485 - 2313478

### Technical data

#### Power supply

Nominal supply voltage	24 V AC/DC $\pm 20\%$ (via pluggable COMBICON screw terminal block)
Nominal supply voltage	24 V DC $\pm 5\%$ (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	100 mA (24 V DC)

#### General

Electrical isolation	DIN EN 50178 (VCC // Ethernet // Serial)
Test voltage data interface/data interface	1.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Test voltage data interface/power supply	1.5 kV <sub>rms</sub>
Test voltage data interface/power supply	1.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Standards/regulations	EN 50121-4
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Net weight	130 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))
MTBF	179 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
MTTF	2001 Years (SN 29500 standard, temperature 25°C, operating cycle 21% (5 days a week, 8 hours a day))
MTTF	870 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25% (5 days a week, 12 hours a day))
MTTF	355 Years (SN 29500 standard, temperature 40°C, operating cycle 100% (7 days a week, 24 hours a day))
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X
UL, USA	Class I, Zone 2, AEx nA IIC T5
UL, USA / Canada	508 listed
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D
UL, Canada	Class I, zone 2, Ex nA IIC T5 Gc X

#### 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)

### classifications

#### eCl@ss

eCl@ss 4.0	27250504
------------	----------

# Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

## classifications

### eCl@ss

eCl@ss 4.1	27250504
eCl@ss 5.0	27250504
eCl@ss 5.1	27250504
eCl@ss 6.0	27250504
eCl@ss 7.0	27250504
eCl@ss 8.0	19170125

### ETIM

ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

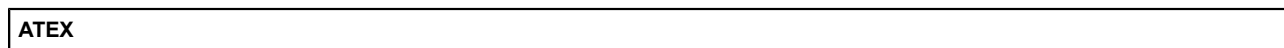
### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

## approvals

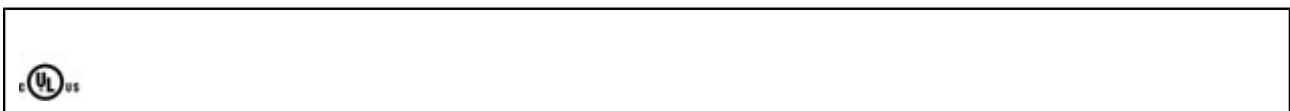
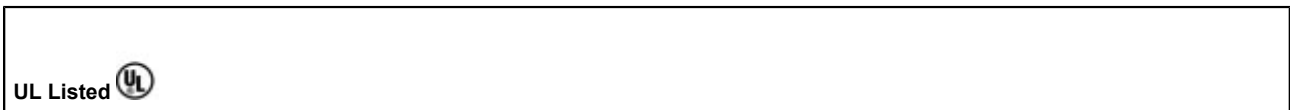
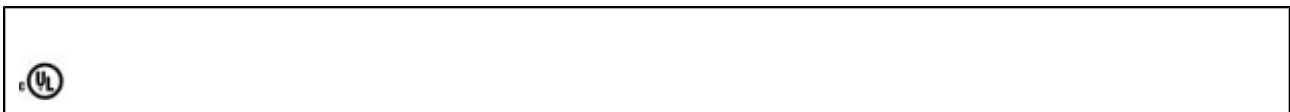
ATEX / ATEX / UL Listed / cUL Listed / cULus Listed / UL Listed / cUL Listed / UL Listed / cUL Listed / cULus Listed /

### Approval details



# Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

approvals



accessories

## Adapter cable

PSM-KA9SUB9/BB/2METER - 2799474



PSM-KAD-IL RS232/9SUB/B/0,8M - 2319200



## Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

accessories

### Power supply

MINI-SYS-PS-100-240AC/24DC/1.5 - 2866983



---

### DIN rail connector

ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - 2707437



---

### Interface converter

FL COMSERVER UNI 232/422/485 - 2313452



---

### Data cable by the meter

FL CAT5 HEAVY - 2744814



## Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

### accessories

FL CAT5 FLEX - 2744830



---

### Data plug

VS-08-RJ45-5-Q/IP20 - 1656725



---

SUBCON 9/F-SH - 2761499



---

### Switch

FL SWITCH SFNT 5TX - 2891003



---

### Media converter

FL MC EF 1300 MM SC - 2902853



## Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

accessories

---

### Passive isolators

FL ISOLATOR 100-RJ/RJ - 2313931



---

### Patch panel

FL-PP-RJ45-SCC - 2901642



---

### Modem

PSI-MODEM-SHDSL/ETH - 2313643



---

PSI-MODEM-SHDSL/SERIAL - 2313669



---

### Patch cable



## Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

### accessories

FL CAT5 PATCH 0,5 - 2832263



---

FL CAT5 PATCH 5,0 - 2832580



---

### Screwdriver tools

SZF 1-0,6X3,5 - 1204517



---

### Safety locking

FL PATCH SAFE CLIP - 2891246



---

### Arrester test system

CM-KBL-RS232/USB - 2881078



## Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

accessories

---

### Mounting material

ME-SAS - 2853899



### Extension module

PSI-MODEM-SPLITTER - 2708766



### Surge protection for information technology

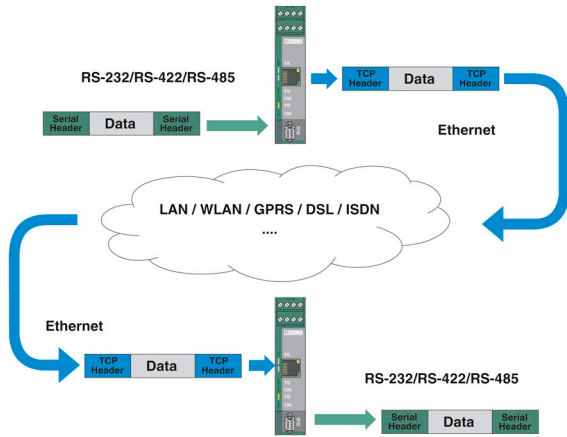
DT-LAN-CAT.6+ - 2881007



Drawings

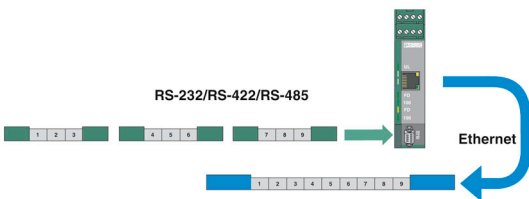
# Interface converters - FL COMSERVER BASIC 232/422/485 - 2313478

Application drawing



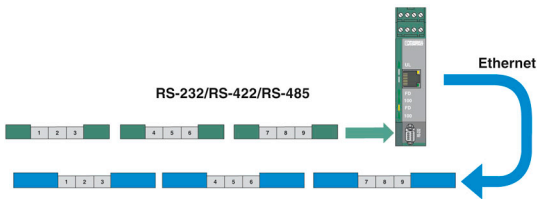
Serial data transmission via Ethernet

Application drawing



Large value: "Idle Force Timeout Characters"

Application drawing



Small value: "Idle Force Timeout Characters"