

# FL COMSERVER WLAN 232/422/485 - Interface converters



2313559

<https://www.phoenixcontact.com/us/products/2313559>

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FL COMSERVER WLAN..., to convert a serial RS-232/422/485 or USB interface to 54 Mbps WLAN Ethernet, supports TCP, UDP applications, incl. CD-ROM with Com Port Redirector Software and user documentation (PDF).

## Your advantages

- 3-way electrical isolation VCC // RS-232/RS-422/RS-485 // network
- Extended temperature range of -25°C to +60°C
- Ad-hoc or infrastructure mode
- LED diagnostic indicators
- Simple configuration software
- Redundant power supply and modular station structure with TBUS connectors
- Software for virtual COM ports supplied as standard



## Commercial data

Item number	2313559
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC671
GTIN	4046356480109
Weight per piece (including packing)	232.8 g
Weight per piece (excluding packing)	232.8 g
Customs tariff number	85176200
Country of origin	DE

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## Technical data

### Product properties

Product type	Interface converter
MTTF	2120 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	851 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	346 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
MTBF	1153 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	262 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))

### Functions

Management	Web-based management
	SNMP v1/v2

### Electrical properties

Electrical isolation	VCC // WLAN, RS-232, RS-422, RS-485, USB
Maximum power dissipation for nominal condition	2.4 W
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> (50 Hz, 1 min.)
	1.5 kV <sub>rms</sub>

### Supply

Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
	19 V AC ... 29 V AC (via pluggable COMBICON screw terminal block)
Nominal supply voltage	24 V DC ±20 % (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	≤ 100 mA (24 V DC)

### Function

Management	With configuration software via USB and serial interface
Status and diagnostic indicators	LEDs: UL (logic voltage), TD + RD (data activity serial), 4-level bar graph (received wireless power), SER ERR (serial errors)

### Connection data

#### Supply

Tightening torque	0.56 Nm ... 0.79 Nm
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### Interfaces

Signal	Ethernet
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Data: V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1

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Serial transmission speed	0.3; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2 kbps
Connection method	D-SUB 9 plug
File format/coding	Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length
Data flow control/protocols	Software handshake, Xon/Xoff or hardware handshake RTS/CTS

Data: RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1

Serial transmission speed	0.3; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2; 136; 187.5 kbps
Connection method	Plug-in/screw connection via COMBICON
Transmission length	≤ 1200 m
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

Data: RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire

Serial transmission speed	0.3; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2; 136; 187.5 kbps
Connection method	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

Data: USB interface

Connection method	Mini-USB B, socket
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Wireless

Interface description	WLAN as per IEEE 802.11 b/g
Operating mode	Infrastructure mode, ad-hoc mode
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)
Transmit capacity, minimum	-28 dBm (can be set via software)
Transmit capacity, maximum	20 dBm (can be set via software)
Data rate	≤ 54 Mbps
Minimum receiver sensitivity	-85 dBm
Antenna	External
Connection method	SMA socket
Security	802.11i, WPA PSK (preshared key), WPA2 PSK, AES, WEP 64 Bit/128 Bit, TKIP
Configuration	USB, serially with configuration software
Protocols supported	TCP/IP, UDP

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## Dimensions

Width	22.5 mm
Height	99 mm
Depth	121 mm

## Material specifications

Color	green
Material (Housing)	PA 6.6-FR

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

## Approvals

### CE

Certificate	CE-compliant
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### UL, USA/Canada

Identification	508 Listed
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### Wireless approval USA, FCC

Note	Part 15, RSS 210
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### Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 61000-6-2:2005

### Noise emission

Standards/regulations	EN 61000-6-4
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## Mounting

Mounting type	DIN rail mounting
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## Classifications

### UNSPSC

UNSPSC 21.0	43222604
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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50 An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
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### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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