

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

### Product Features

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



**WLAN RS-232 RS-485 RS-422**

### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	220.0 GRM
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Dimensions

Width	22.5 mm
Height	99 mm
Depth	121 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

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## Technical data

### Ambient conditions

Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Altitude	5000 m (For restrictions see manufacturer's declaration)
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

### General

Electrical isolation	VCC // WLAN, RS-232, RS-422, RS-485, USB
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>
	1.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Net weight	190 g
Housing material	PA 6.6-FR
Color	green
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))
MTTF	2120 Years (SN 29500 standard, temperature 25°C, operating cycle 21 % (5 days a week, 8 hours a day))
	851 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day))
	346 Years (SN 29500 standard, temperature 40°C, operating cycle 100 % (7 days a week, 24 hours a day))
Conformance	CE-compliant
UL, USA / Canada	508 listed
FCC	Part 15, RSS 210

### Power supply

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

### Serial interface

Interface 1	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
Interface	V.24 (RS-232)
Connection method	D-SUB-9 plug

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### Technical data

#### Serial interface

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
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
Interface 2	RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1
Interface	RS-422
Connection method	Plug-in/screw connection via COMBICON
File format/coding	Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length
Transmission length	≤ 1200 m
Termination resistor	390 Ω
	180 Ω
	390 Ω (Can be connected)
Data flow control/protocols	Automatic control
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
Interface 3	RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire
Interface	RS-485
Connection method	Plug-in/screw connection via COMBICON
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)
Data flow control/protocols	Automatic control
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
Interface 4	USB interface
Interface	USB
Connection method	Mini-USB B, socket

#### Radio interface

Interface description	WLAN as per IEEE 802.11 b/g
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

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### Technical data

#### Radio interface

Connection method	SMA socket
Operating mode	Infrastructure mode, ad-hoc mode
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

#### 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)

### Classifications

#### eCl@ss

eCl@ss 4.0	27230207
eCl@ss 4.1	27230207
eCl@ss 5.0	27230207
eCl@ss 5.1	27230207
eCl@ss 6.0	27230207
eCl@ss 7.0	27230207
eCl@ss 8.0	27230207

#### ETIM

ETIM 2.0	EC000739
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

#### Approvals

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## Approvals

Approvals

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

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Ex Approvals

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Approvals submitted

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## Approval details

UL Listed 

cUL Listed 

UL Listed 

cUL Listed 

cULus Listed 

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