

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).

Your advantages

- ✓ 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



Key Commercial Data

| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc |
| GTIN |  4 046356 480109 |
| GTIN | 4046356480109 |
| Weight per Piece (excluding packing) | 220.000 g |
| Custom tariff number | 85176200 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|--------|---------|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 121 mm |

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Technical data

Ambient conditions

| | |
|------------------------------------------|----------------------------------------------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Altitude | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| 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 _{rms} (50 Hz, 1 min.) |
| Test voltage data interface/power supply | 1.5 kV _{rms} |
| | 1.5 kV _{rms} (50 Hz, 1 min.) |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise emission | EN 61000-6-4 |
| Net weight | 232.8 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%) |
| | 851 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%) |
| | 346 Years (SN 29500 standard, temperature 40°C, operating cycle 100%) |

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 (via pluggable COMBICON screw terminal block) |
| Typical current consumption | ≤ 100 mA (24 V DC) |

Interfaces

| | |
|--------------------|----------------------------------------------------------------------------------------|
| Interface 1 | V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1 |
| Interface | RS-232 |
| 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 |

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Technical data

Interfaces

| | |
|-----------------------------|------------------------------------------------------------------------------------------|
| 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 |

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

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Technical data

Wireless interface

| | |
|---------------------|---------------------------------------------------------------------------|
| 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) |
| Management | Web-based management |
| | SNMP v1/v2 |

Conformance/approvals

| | |
|-----------------|----------------------------------|
| Designation | CE |
| Identification | CE-compliant |
| Designation | EAC |
| Identification | EAC |
| Designation | UL, USA/Canada |
| Identification | 508 Listed |
| Designation | Wireless approval USA, FCC |
| Additional text | Part 15, RSS 210 |
| Designation | Corrosive gas test |
| Identification | ISA-S71.04-1985 G3 Harsh Group A |

Standards and Regulations

| | |
|-------------------------------|-------------------------------------------|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2:2005 |

Environmental Product Compliance

| | |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 19179290 |
| eCl@ss 4.0 | 27230200 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.1 | 27230200 |
| eCl@ss 5.0 | 27230200 |
| eCl@ss 5.1 | 27230200 |
| eCl@ss 6.0 | 19179200 |
| eCl@ss 7.0 | 19179290 |
| eCl@ss 8.0 | 19179290 |
| eCl@ss 9.0 | 19179290 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000739 |
| ETIM 3.0 | EC000310 |
| ETIM 4.0 | EC000310 |
| ETIM 5.0 | EC000310 |
| ETIM 6.0 | EC000310 |
| ETIM 7.0 | EC000310 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11 | 39121008 |
| UNSPSC 12.01 | 39121008 |
| UNSPSC 13.2 | 43222604 |
| UNSPSC 18.0 | 43222604 |
| UNSPSC 19.0 | 43222604 |
| UNSPSC 20.0 | 43222604 |
| UNSPSC 21.0 | 43222604 |

Accessories

Accessories

Adapter

Adapter - PSM-AD-D9-NULLMODEM - 2708753



V.24 (RS-232) zero modem connector

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Accessories

Adapter cable

Data cable - PSM-KA9SUB9/BB/2METER - 2799474



RS-232 cable, 9-pos. D-SUB socket on 9-pos. D-SUB socket, 9-wire, 1:1

Antenna

Antenna - RAD-ISM-2400-ANT-VAN- 3-0-SMA - 2885867



Omnidirectional antenna with protection against vandalism, 2.4 GHz, gain: 3 dBi, polarization: linear, opening angle: h/v 360°/85°, degree of protection: IP55, connection: SMA (male), for control cabinet mounting (optional wall mounting), incl. 1.5 m / 5 ft. connecting cable

Antenna - RAD-ISM-2400-ANT-PAN- 8-0 - 2867610



Directional antenna, 2.4 GHz, gain: 8 dBi, polarization: linear, opening angle: h/v 75°/70°, degree of protection: IP55, connection: SMA (female), incl. mounting bracket and mast clips

Antenna - RAD-ISM-2400-ANT-OMNI-5-0 - 2884923



Omnidirectional antenna, 2.4 GHz, gain: 5 dBi, polarization: linear, opening angle: h/v 360°/45°, degree of protection: IP55, connection: SMA (male)

Arrester test system

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Accessories

Cable - CM-KBL-RS232/USB - 2881078



Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.

Coaxial cable

Antenna cable - RAD-CAB-EF393- 3M - 2867649



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: stranded, attenuation: 1.0 / 1.8 / 3.1 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2 x N (male), cable length: 3 m (10 ft.)

Data plug

D-SUB bus connector - SUBCON 9/F-SH - 2761499



D-SUB plug, 9-pos. female connector, one cable entry < 35°, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

DIN rail connector

DIN rail bus connectors - ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - 2707437



DIN rail connector, nominal current: 8 A, rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, color: green, mounting: DIN rail

Interface converter

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Accessories

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



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. Com Port Redirector software and user documentation (PDF)

Mounting material

Shield connection clamp - ME-SAS - 2853899



Shield connection clamp for printed circuit terminal block

PCB plug

Printed-circuit board connector - MC 1,5/ 2-ST-3,81 - 1803578



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 2, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

Power supply

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



Primary-switched MINI POWER supply for DIN rail mounting, input: 1-phase, output: 24 V DC/1.5 A

Programming cable

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Accessories

USB cable - CABLE-USB/MINI-USB-3,0M - 2986135



USB connecting cable: USB plug type A to USB plug type Mini-B; length: 3 m

Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



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

WLAN Ethernet device

Wireless module - FL WLAN 24 AP 802-11 - 2884075



WLAN access point, 24 V DC; PoE; IEEE 802.11 a/b/g; 2.4 GHz; 5 GHz, client adapter; antenna diversity; web-based management; 802.11i, WPA2, WPA-PSK, RADIUS, WEP, TKIP, AES

Wireless module - FL WLAN 230 AP 802-11 - 2884444



WLAN access point, 230 V DC; IEEE 802.11 a/b/g; 2.4 GHz; 5 GHz, client adapter; antenna diversity; web-based management; 802.11i, WPA2, WPA-PSK, RADIUS, WEP, TKIP, AES

Access Point - FL WLAN 24 AP 802-11 XDB - 2990037



WLAN access point, 24 V DC; IEEE 802.11 a/b/g; 2.4 GHz; 5 GHz, client adapter, bridge; antenna diversity; Wi-Fi compliant; web-based management; 802.11i, DIN rail mounting, without antenna

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Accessories

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