

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
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC671
Catalog page	Page 413 (C-8-2013)
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))

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 _{rms} (50 Hz, 1 min.)
Test voltage data interface/power supply	1.5 kV _{rms} (50 Hz, 1 min.)
	1.5 kV _{rms}

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 \pm 20 % (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	\leq 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

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

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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

Dimensions

Width	22.5 mm
Height	99 mm

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Depth	121 mm
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Material specifications

Color	green
Material	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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EAC

Identification	EAC
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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

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

Mounting

Mounting type	DIN rail mounting
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Classifications

ETIM

ETIM 7.0	EC000310
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UNSPSC

UNSPSC 21.0	43222604
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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

PSM-KA9SUB9/BB/2METER - Data cable

2799474

<https://www.phoenixcontact.com/us/products/2799474>

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



QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply unit

2904614

<https://www.phoenixcontact.com/us/products/2904614>



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

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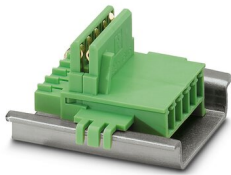
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ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - DIN rail bus connectors

2707437

<https://www.phoenixcontact.com/us/products/2707437>



DIN rail connector, color: green, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

ME-SAS - Shield connection clamp

2853899

<https://www.phoenixcontact.com/us/products/2853899>



Shield connection clamp for terminal points starting from 2.5 mm²

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SZF 1-0,6X3,5 - Screwdriver

1204517

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

CM-KBL-RS232/USB - Cable

2881078

<https://www.phoenixcontact.com/us/products/2881078>



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

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

2885867

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

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

2867610

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

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RAD-CAB-EF393- 3M - Antenna cable

2867649

<https://www.phoenixcontact.com/us/products/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.)



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

2986135

<https://www.phoenixcontact.com/us/products/2986135>

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



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

2761499

<https://www.phoenixcontact.com/us/products/2761499>



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

PSM-AD-D9-NULLMODEM - Adapter

2708753

<https://www.phoenixcontact.com/us/products/2708753>



V.24 (RS-232) zero modem connector

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MC 1,5/ 2-ST-3,81 - PCB connector

1803578

<https://www.phoenixcontact.com/us/products/1803578>



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MC 1,5/-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

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

2884923

<https://www.phoenixcontact.com/us/products/2884923>



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

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FL WLAN 24 AP 802-11 - Wireless module

2884075

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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

FL WLAN 230 AP 802-11 - Wireless module

2884444

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

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FL WLAN 24 AP 802-11 XDB - Access point

2990037

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

FL COMSERVER BASIC 232/422/485 - Interface converters

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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)

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