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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 _{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 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

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Approvals

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

Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 

UL Listed 

cUL Listed 

cULus Listed 