FL WLAN 1021 - Wireless module

2702993

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WLAN client, soft AP, Wi-Fi 6, for USA and Canada, with 2 external antenna connections, IP20, -30°C … +60°C, WLAN 802.11a/n/ac/ax, frequency: 2.4 GHz, 5 GHz, 6 GHz (client mode), connection data: 9 V DC ... 32 V DC, RJ45: http(s), REST API

Your advantages

- Wi-Fi 6E (6 GHz client mode)
- Wi-Fi 6 (2,4/5 GHz)
- Gross data rate up to 2400 Mbps
- Fast roaming in cellular applications
- Controllable via REST API
- Highest safety WPA 2/3
- RJ45 with 10/100/1000 Mbps

Commercial data

Item number	2702993
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNN2W4
GTIN	4055626458212
Weight per piece (including packing)	256 g
Weight per piece (excluding packing)	232 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.

Product properties

Product type	Wireless module
Type	Stand-alone

Insulation characteristics

Protection class	III (VDE 0106, IEC 60536) (for indoors only)
Overvoltage category	II (IEC 61010-1)
Pollution degree	2

Wireless card

Type	IEEE 802.11 a/b/g/n/ac/ax 2,4 GHz, 5 GHz > 600 MBit/s
Assembly note	Permanently installed

Electrical properties

Maximum power dissipation for nominal condition	4.3 W
Test section	24 V supply / functional ground 500 V DC 1 min
	Ethernet interface/all other potentials 2.25 kV DC 1 min
	24 V supply/internal communications 500 V DC 1 min

Supply: Module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
Note on the connection method	Recommended conductor cross-section: 0.75 mm²
	Recommended ferrule: connection length 10 mm
	Recommended crimping pliers: trapezoidal or square
Designation	1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3
Number of positions	3
Cross section range AWG	24 ... 16 (Copper cables classified for 85°C (UL))
Supply voltage	24 V DC (SELV)
Supply voltage range	9 V DC ... 32 V DC (PELV/SELV)
Supply current	typ. 180 mA (at Unom/ 20°C/ max. data throughput)
Current consumption	max. 800 mA (At Umin/Tmax/max. data throughput)

Connection data

1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3

Connection method	Push-in spring connection
pluggable	yes
Conductor cross-section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross-section AWG	24 ... 16
Stripping length	10 mm

Interfaces

Antenna

Number	2
Note on the connection method	MIMO

Functions

Configuration	Web-based management, automated CLI, REST API
Quality of service (QoS)	Yes
Wireless licenses	USA, Canada

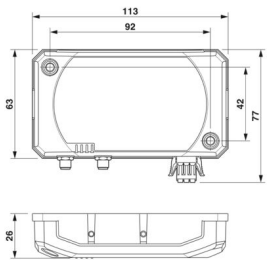
Ethernet (RJ45)

Number of interfaces	1
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	1 (RJ45 ports)

Wireless

Designation	Wireless LAN
Antenna connection method	RSMA (female)
Frequency band	2.4 GHz
	5 GHz
	6 GHz (Client mode only)
Wireless standard	WLAN
	IEEE 802.11
	a
	b
	g
	n
	ac
	ax
	Wi-Fi 6
Transmission power	max. 19.5 dBm (with two antennas)
Number of wireless interfaces	1 IEEE 802.11 a/b/g/n/ac/ax
Wireless modules that can be connected	20 (10 per virtual interface in AP mode)

Dimensions

Dimensional drawing	
Width	63 mm
Height	26 mm
Depth	113 mm
Note on dimensions	Installed dimensions without connector

Material specifications

Color (Housing)	black (RAL 9005)
Material base plate	Die-cast zinc, nickel-plated
Housing material	PC

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-30 °C ... 60 °C
Degree of protection	IP20 (not UL-tested)
Air pressure (operation)	800 hPa ... 1080 hPa (up to 2000 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Mechanical test

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	30g, 11 ms half-sine shock pulse
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g, 10 ... 150 Hz
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g, 16 ms, 6000 shocks
Broadband noise in accordance with EN 60068-2-64	Category 1, Class A

EMC data

Electrostatic discharge

Standards/regulations	EN 61000-4-2

Electrostatic discharge

Contact discharge	± 6 kV
Discharge in air	± 8 kV

Indirect discharge	± 6 kV

Electromagnetic HF field

Standards/regulations	EN 61000-4-3

Electromagnetic HF field

Frequency range	80 MHz ... 1000 MHz
Test field strength	10 V/m
Frequency range	1000 MHz ... 6000 MHz
Test field strength	3 V/m

Fast transients (burst)

Standards/regulations	EN 61000-4-4

Fast transients (burst)

Comments	±2.2 kV

Surge current load (surge)

Standards/regulations	EN 61000-4-5

Surge current load (surge)

Signal	± 0.5 kV (symmetrical)
	± 1 kV (asymmetrical)

Conducted interference

Standards/regulations	EN 61000-4-6

Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

Emitted interference

Standards/regulations	FCC/CFR 47, Part 15.107
Test result	Class B

Emitted interference

Standards/regulations	FCC/CFR 47, Part 15.109
Test result	Class A

Emitted interference

Standards/regulations	ICES-003 Issue 6 section 6.1
Test result	Class B

Emitted interference

Standards/regulations	ICES-003 Issue 6 section 6.2
Test result	Class A

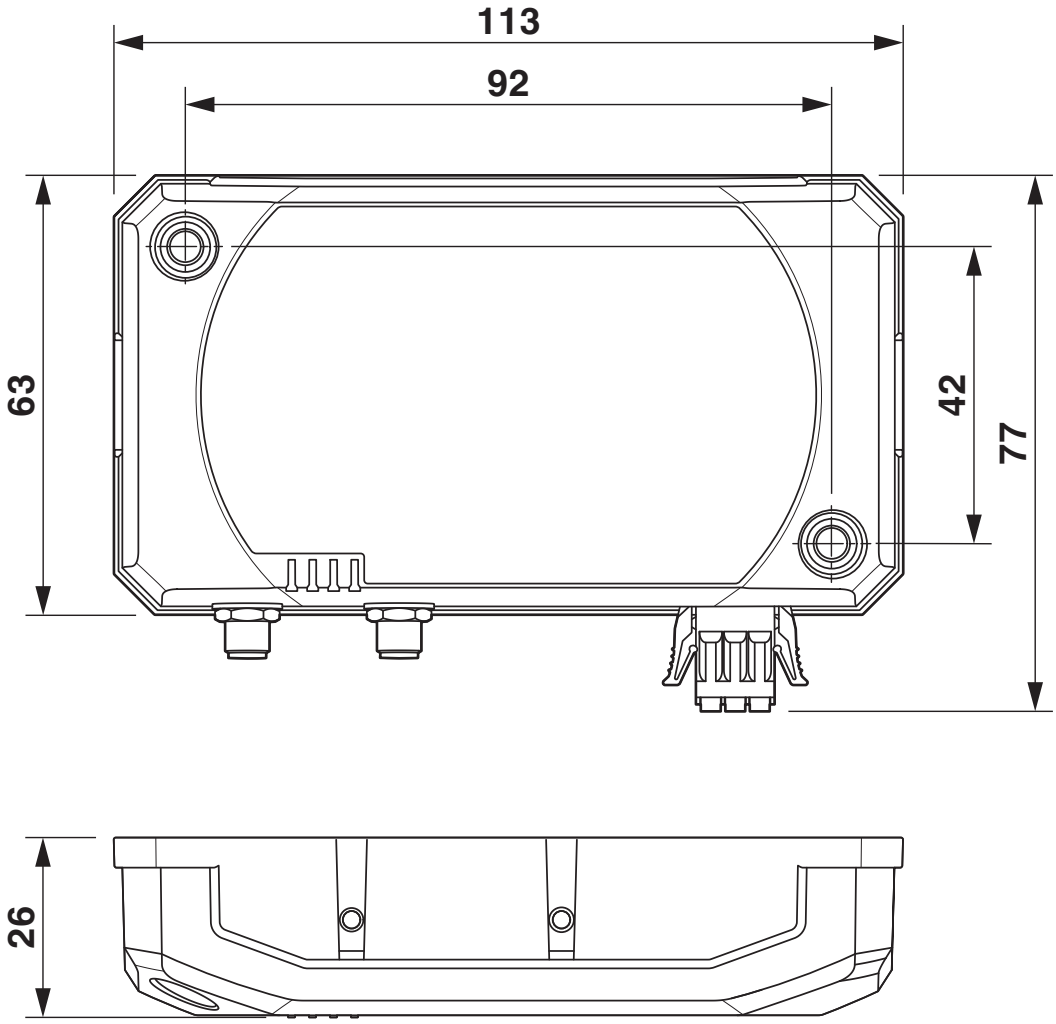
Mounting

Mounting type	Panel mounting
	DIN rail mounting

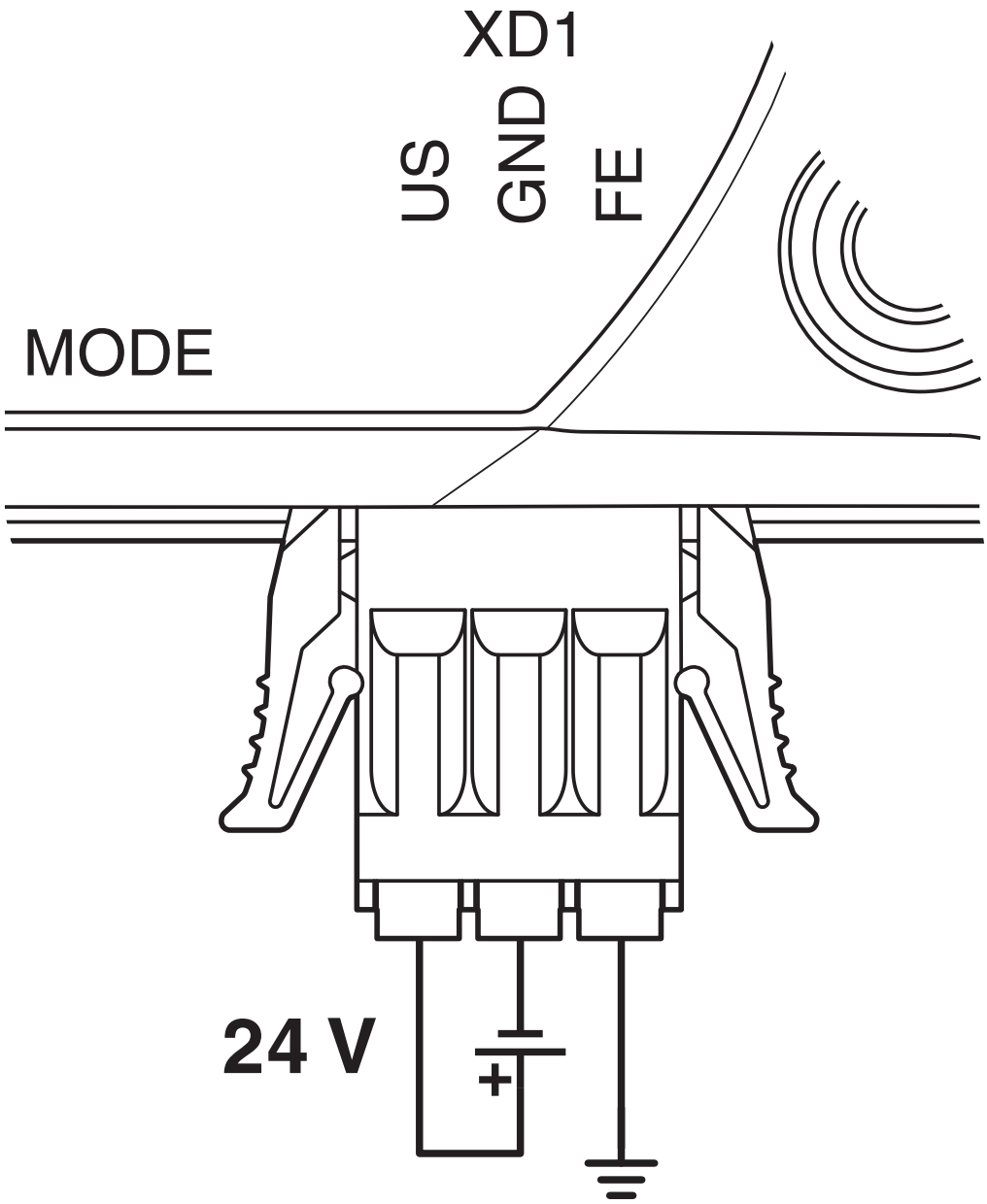
Assembly note	Antennas not included in scope of supply

Drawings

Dimensional drawing



Connection diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2702993

cULus Listed
Approval ID: E238705

FCC
Approval ID: N6C-PCEAX

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cULus Listed
Approval ID: E196811

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Classifications

ECLASS

ECLASS-13.0	19170501
ECLASS-15.0	19170501

ETIM

ETIM 10.0	EC000816

UNSPSC

UNSPSC 21.0	43223108

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market

EU REACH SVHC

REACH candidate substance (CAS No.)	Diboron trioxide(CAS: 1303-86-2)
	4,4'-isopropylidenediphenol(CAS: 80-05-7)
	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)

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