

FL WLAN 1021 - Wireless module



2702993

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

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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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 mm ²
	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

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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)

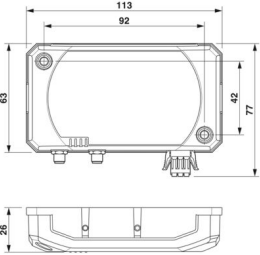
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Dimensions

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
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Electrostatic discharge

Contact discharge	± 6 kV
Discharge in air	± 8 kV

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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

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Assembly note

Antennas not included in scope of supply

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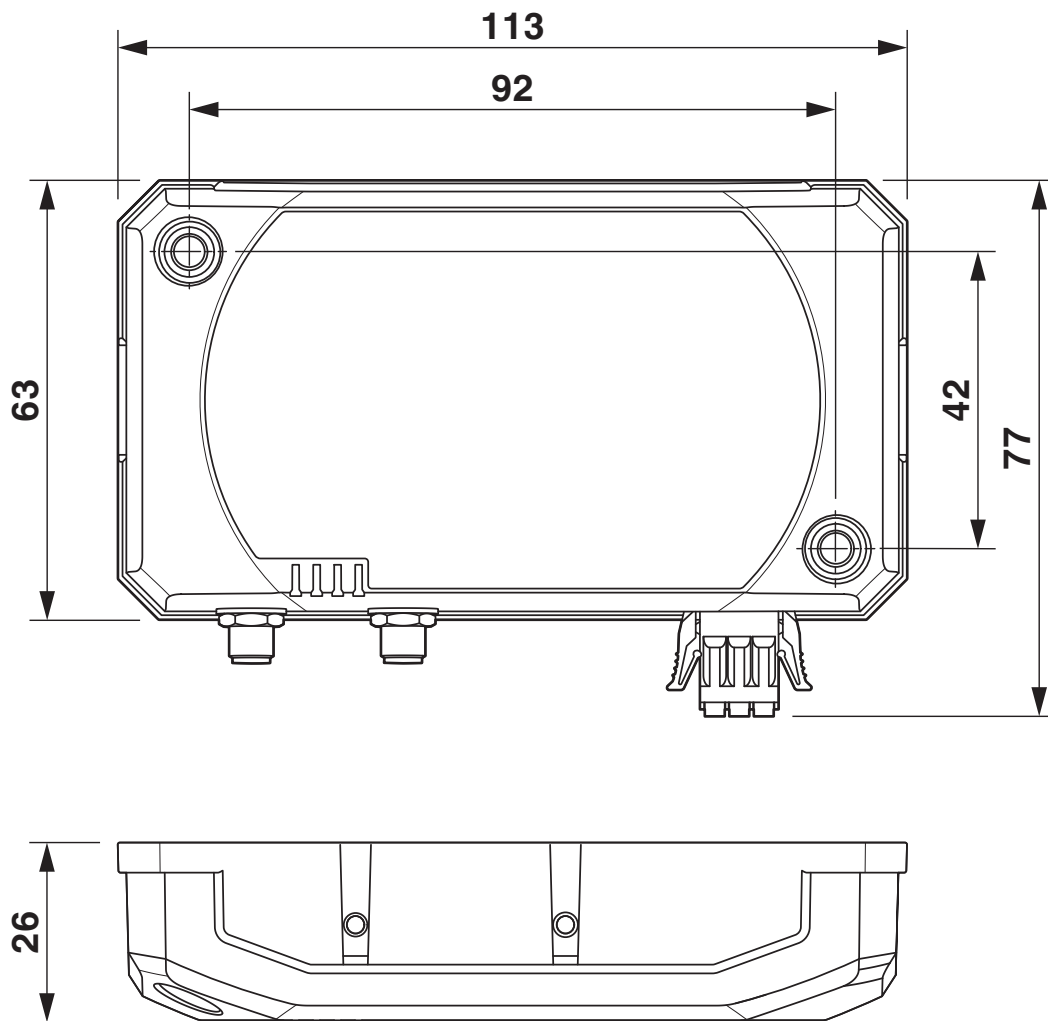
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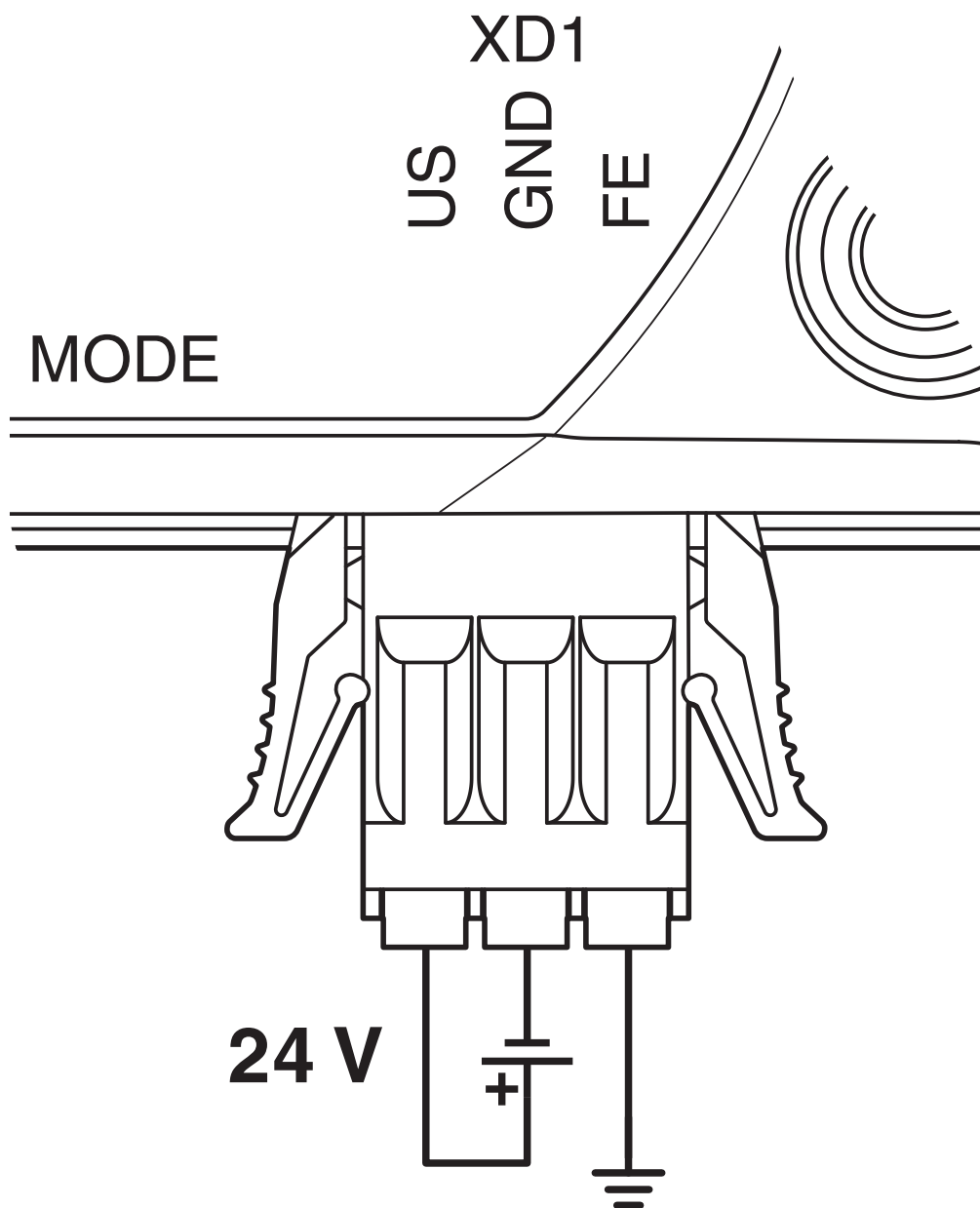


Drawings

Dimensional drawing



Connection diagram



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Approvals

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cULus Listed

Approval ID: E238705

FCC

Approval ID: N6C-PCEAX



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Classifications

ECLASS

ECLASS-13.0	19170501
ECLASS-15.0	19170501

ETIM

ETIM 10.0	EC000816
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UNSPSC

UNSPSC 21.0	43223108
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Environmental product compliance

EU RoHS

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