

Wireless module - FL WLAN 2011 - 1119248

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WLAN access point, client, mesh with two external antenna connections (RSMA-F), IP20, temperature range :
-40°C ... +60°C, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz, connections: COMBICON
9 V DC ... 32 V DC, RJ45: for LAN, web, http/https, CLI, REST API

The figure shows a version of the product



Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 048853
GTIN	4063151048853
Weight per Piece (excluding packing)	260.000 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
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Dimensions

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

Ambient conditions

Ambient temperature (operation)	-40 °C ... 60 °C
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Wireless module - FL WLAN 2011 - 1119248

Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
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)
Degree of protection	IP20

Wireless interface

Designation	Wireless LAN
Antenna connection method	RSMA (female)
Wireless standard	IEEE 802.11
	a
	b
	g
	n
Frequency band	2.4 GHz
	5 GHz
Transmission power	max. 19 dBm (with two antennas)
Number of wireless interfaces	1 IEEE 802.11 a/b/g/n
Wireless modules that can be connected	60 (In access point mode)

Functions

Configuration	Web-based management, automated CLI
Quality of service (QoS)	Yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	MAC filter
	Supports 802.1X/RADIUS

Wireless card

Number	1
Type	IEEE 802.11 a/b/g/n 2.4 GHz and 5 GHz to 300 Mbps
Assembly instructions	Permanently installed

Antenna

Assembly instructions	Antennas not included in scope of supply
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Wireless module - FL WLAN 2011 - 1119248

Technical data

Antenna

Number	2
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Ethernet interface

Interface	Ethernet (RJ45)
Number of interfaces	1
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)

Power supply for module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
Designation	1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3
Number of positions	3
Cross section range AWG	24 ... 16 (Use copper wires rated 75° C (UL))
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
Supply voltage	24 V DC (SELV)
Supply voltage range	9 V DC ... 32 V DC (PELV/SELV)
Supply current	typ. 170 mA (at 24 V DC)
Current consumption	max. 600 mA (at 9 V DC)

Connection data

Designation	1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3
Connection method	Push-in spring connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	10 mm

General

Housing material	Polycarbonate, PC
Material base plate	Die-cast zinc, nickel-plated

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Technical data

General

Mounting type	DIN rail mounting
Net weight	266 g
Degree of pollution	2
Wireless licenses	USA, Canada

Standards and Regulations

Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g, 11 ms half-sine shock pulse
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g, 10 ... 150 Hz
	Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g, 16 ms, 6000 shocks
	Broadband noise according to EN 60068-2-64 Category 1, Class A
Standards/regulations	EN 61000-4-2
Contact discharge	± 4 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 100 MHz
Test field strength	10 V/m
Frequency range	1000 MHz ... 6000 MHz
Test field strength	3 V/m
Standards/regulations	EN 61000-4-4
Comments	±2.2 kV
Standards/regulations	EN 61000-4-5
Signal	± 0.5 kV (symmetrical)
	± 1 kV (asymmetrical)
Standards/regulations	EN 55022
Test result	Class B
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

Classifications

eCl@ss

eCl@ss 10.0.1	19170501
eCl@ss 11.0	19170501
eCl@ss 9.0	19170201

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Classifications

ETIM

ETIM 7.0	EC000816
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UNSPSC

UNSPSC 18.0	43223108
UNSPSC 19.0	43223108
UNSPSC 20.0	43223108
UNSPSC 21.0	43223108

Approvals

Approvals

Approvals

cULus Listed

Ex Approvals

cULus Listed / IECEx

Approval details

cULus Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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Wireless module - FL WLAN 1011 - 2702900

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WLAN access point, client with two external antenna connections (RSMA-F), IP20, temperature range :0°C ... +60°C, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz, connections: COMBICON 9 V DC ... 32 V DC, RJ45: for LAN, web, http/https, CLI, REST API

The figure shows a version of the product



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 458090
GTIN	4055626458090
Weight per Piece (excluding packing)	260.000 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
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Dimensions

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

Ambient conditions

Ambient temperature (operation)	0 °C ... 60 °C
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Wireless module - FL WLAN 1011 - 2702900

Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
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)
Degree of protection	IP20

Wireless interface

Designation	Wireless LAN
Antenna connection method	RSMA (female)
Wireless standard	IEEE 802.11
	a
	b
	g
	n
Frequency band	2.4 GHz
	5 GHz
Transmission power	max. 19 dBm (with two antennas)
Number of wireless interfaces	1 IEEE 802.11 a/b/g/n
Wireless modules that can be connected	10 (In Access Point mode max. 2 SSIDs)

Functions

Configuration	Web-based management, automated CLI
Quality of service (QoS)	Yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	MAC filter
	Supports 802.1X/RADIUS

Wireless card

Number	1
Type	IEEE 802.11 a/b/g/n 2.4 GHz and 5 GHz to 300 Mbps
Assembly instructions	Permanently installed

Antenna

Assembly instructions	Antennas not included in scope of supply
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Wireless module - FL WLAN 1011 - 2702900

Technical data

Antenna

Number	2
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Ethernet interface

Interface	Ethernet (RJ45)
Number of interfaces	1
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)

Power supply for module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
Designation	1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3
Number of positions	3
Cross section range AWG	24 ... 16 (Use copper wires rated 75° C (UL))
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
Supply voltage	24 V DC (SELV)
Supply voltage range	9 V DC ... 32 V DC (PELV/SELV)
Supply current	typ. 150 mA (at 24 V DC)
Current consumption	max. 550 mA (at 9 V DC)

Connection data

Designation	1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3
Connection method	Push-in spring connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	10 mm

General

Housing material	Polycarbonate, PC
Material base plate	Die-cast zinc, nickel-plated

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Technical data

General

Mounting type	DIN rail mounting
Net weight	259.7 g
Degree of pollution	2
Wireless licenses	USA, Canada

Standards and Regulations

Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g, 11 ms half-sine shock pulse
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g, 10 ... 150 Hz
	Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g, 16 ms, 6000 shocks
	Broadband noise according to EN 60068-2-64 Category 1, Class A
Standards/regulations	EN 61000-4-2
Contact discharge	± 4 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 100 MHz
Test field strength	10 V/m
Frequency range	1000 MHz ... 6000 MHz
Test field strength	3 V/m
Standards/regulations	EN 61000-4-4
Comments	±2.2 kV
Standards/regulations	EN 61000-4-5
Signal	± 0.5 kV (symmetrical)
	± 1 kV (asymmetrical)
Standards/regulations	EN 55022
Test result	Class B
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

Classifications

eCl@ss

eCl@ss 10.0.1	19170501
eCl@ss 11.0	19170501
eCl@ss 4.0	24010504
eCl@ss 4.1	24010504

Wireless module - FL WLAN 1011 - 2702900

Classifications

eCl@ss

eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170200
eCl@ss 7.0	19170201
eCl@ss 9.0	19170201

ETIM

ETIM 3.0	EC000817
ETIM 4.0	EC000816
ETIM 6.0	EC000816
ETIM 7.0	EC000816

UNSPSC

UNSPSC 6.01	43172710
UNSPSC 7.0901	43223108
UNSPSC 11	43172710
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108
UNSPSC 18.0	43223108
UNSPSC 19.0	43223108
UNSPSC 20.0	43223108
UNSPSC 21.0	43223108

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Approval details

Wireless module - FL WLAN 1011 - 2702900

Approvals

cULus Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

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