FL WLAN 5110 - Wireless module

1043193

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WLAN access point, client, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz, IP20, connections: COMBICON for 10 ... 36 V DC, 2x RJ45 for LAN, central cluster management, WBM, 802.11i: WPA2, WPA-PSK, TKIP, AES, connections for 2 antennas (MIMO technology)

Commercial data

Item number	1043193
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN2W4
Product key	DNN2W4
GTIN	4055626599977
Weight per piece (including packing)	534.4 g
Weight per piece (excluding packing)	530 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.

Product properties

Product type	Wireless module
Type	Stand-alone

Insulation characteristics

Pollution degree	2

Wireless card

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

Electrical properties

Maximum power dissipation for nominal condition	4.8 W

Supply: Module electronics

Connection method	Via COMBICON
Supply voltage	24 V DC
Supply voltage range	10 V DC ... 36 V DC
Supply current	200 mA (at 24 V DC)

Interfaces

Antenna

Number	2

Functions

Operating modes	Access Point / Client Adapter / Repeater
Basic functions	SNMP (V2/V3), CLI, WPS, DHCP, DCP, BootP, HTTP, HTTPS, Syslog, SD card, dual FW image, 1 x DI, 1 x DO, 2 x Ethernet 10/100 Mbit, auto crossover, auto negotiation, MODE button
Configuration	Cluster management, web-based management, WPS
Automatic channel selection	yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	Supports 802.1X/RADIUS
	MAC filter

Wireless licenses	EU, more countries in e-shop
Country support	Belgium
	Bulgaria
	China
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	Cyprus (rep.)
	South Korea
	Thailand
	Japan
	Brazil

Ethernet (RJ45)

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)

Signal LEDs	Data receive, link status
No. of channels	2 (RJ45 ports)

Wireless

Designation	Wireless LAN
Antenna connection method	RSMA (female)
Number	2
Frequency band	2.4 GHz
	5 GHz
Wireless standard	WLAN
	IEEE 802.11
	a
	b
	g
	n
Transmission power	max. 20 dBm (with two antennas)
Number of wireless interfaces	1 IEEE 802. 11 a/b/g/n

Dimensions

Width	40 mm
Height	109 mm
Depth	109 mm
Note on dimensions	Height with antenna socket, without antenna cable

Material specifications

Color	silver gray

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (extended temperature range on request)
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 ... 80 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 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 B

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

Comments	10 V/m

Fast transients (burst)

Standards/regulations	EN 61000-4-4

Fast transients (burst)

Comments	±2.2 kV

Emitted interference

Standards/regulations	EN 55022
Test result	Class B

Mounting

Mounting type	DIN rail mounting
Assembly note	Antennas not included in scope of supply

Classifications

ECLASS

ECLASS-13.0	19170501

ETIM

ETIM 9.0	EC000816

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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