

# ILB BT ADIO 2/2/16/16 - Wireless module



2884282

<https://www.phoenixcontact.com/us/products/2884282>

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Wireless IO module, 16 digital inputs, 16 digital outputs, 2 analog inputs, 2 analog outputs, Bluetooth V1.2; 2.4 GHz frequency band; 1 wireless interface; WLAN-BlackChannelList; LEM



## Product description

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

## Your advantages

- WLAN coexistence functions AFH, LEM, black channel listing
- Parallel operation of numerous Bluetooth systems
- Extremely rugged and reliable
- Quick and easy startup

## Commercial data

Item number	2884282
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC662
GTIN	4046356049658
Weight per piece (including packing)	389.7 g
Weight per piece (excluding packing)	377.8 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Product properties

Product type	Wireless module
Product family	Inline
Type	Block design
Set comprises	2736783 FLM BT ID-PLUG M12
MTBF	465 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) 140 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))

#### Wireless card

Number	1
Type	Bluetooth, 2.4 GHz ... 1 Mbps
Assembly note	Permanently installed

### Electrical properties

Maximum power dissipation for nominal condition	2.4 W
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#### Supply: Module electronics

Connection method	Inline connector
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including ripple)
Supply current	< 100 mA

### Input data

#### Analog:

Input name	Analog inputs
Description of the input	Single ended
Number of inputs	2
Current input signal	0 mA ... 20 mA
Voltage input signal	0 V ... 10 V
Measured value resolution	12 bits

#### Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	16
Connection method	Spring-cage connection

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Connection technology	1-conductor
Input voltage range "0" signal	< 5 V
Input voltage range "1" signal	> 15 V
Filter time	500 µs

## Output data

### Analog:

Output name	Analog outputs
Number of outputs	2
DAC resolution	12 bit
Current output signal	0 mA ... 20 mA
Voltage output signal	0 V ... 10 V

### Digital:

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	1-conductor
Number of outputs	16
Protective circuit	Short-circuit protection, overload protection, protected against reverse voltages
Maximum output current per channel	500 mA

## Interfaces

### Antenna

Number	1
Connection method	SMA (male)

### Functions

Security	128-bit data encryption
	Authentication
	PIN
	Non-discoverable
Wireless licenses	Europe, additional countries in the e-shop
Country support	Australia (Special rule: Please contact the Product Manager)
	Canada
	Russia (Special rule: Please contact the Product Manager)
	Switzerland
	Singapore
	Turkey
	USA

### Wireless

Designation	Bluetooth
Antenna connection method	SMA (female)
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)

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Wireless standard	Bluetooth 1.2
Transmission power	14 dBm (can be set between 0 dBm and 14 dBm, in 4 dB increments)
Receiver sensitivity	-88.00 dBm
Number of wireless interfaces	1
Wireless modules that can be connected	1 (FLM BT BS 3, FL BT MOD IO AP)
Profiles supported	HID

## Dimensions

Width	117 mm
Height	119.8 mm
Depth	73 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above sea level)
Permissible humidity (operation)	95 % (non-condensing)

### Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	DIN rail mounting
	DIN rail mounting
Assembly note	OMNI antenna is included

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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

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