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

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
Minimum order quantity	1 pc
Product key	DNC662
GTIN	4046356049658
Weight per piece (including packing)	389.7 g
Weight per piece (excluding packing)	377.8 g
Country of origin	DE

Technical data

Notes

Utilization restriction

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

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

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
Measured value resolution	12 bits
Current input signal	0 mA ... 20 mA
Voltage input signal	0 V ... 10 V

Digital:

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

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)

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)

Mounting

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

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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