

# ILB BT ADIO MUX-PANEL - Wireless set



2884509

<https://www.phoenixcontact.com/us/products/2884509>

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Wireless-MUX set, two modules with 16 digital inputs and outputs and 2 analog inputs and outputs (4 - 20 mA, 0 - 10 V) each, panel antennas with 1.0 m cable, 24 V DC supply voltage

## Your advantages

- Transmission time  $\geq 10$  ms
- Range of up to 400 m outdoors
- Wireless diagnostics by means of bar graph
- Plug and play - startup without configuration
- It couldn't be simpler: unpack – connect – switch on

## Commercial data

Item number	2884509
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC662
GTIN	4046356049696
Weight per piece (including packing)	1,083.9 g
Weight per piece (excluding packing)	1,014.9 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	Multiplexer
Product family	Inline
Type	Block design
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))
Diagnostics messages	Short-circuit or overload of the digital outputs LED
	Wireless connection FS LED
	Logic and actuator voltage LED
	Link quality of the wireless connection 4 LEDs

### 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
	16
Connection method	Spring-cage connection

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Connection technology	1-conductor
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	MCX (male)

### Functions

Wireless licenses	Europe, additional countries in the e-shop
Country support	Australia (Special rule: Please contact the Product Manager)
	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Israel
	Italy
	Canada
	Latvia
Liechtenstein	

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	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Russia (Special rule: Please contact the Product Manager)
	Sweden
	Switzerland
	Singapore
	Slovakia
	Slovenia
	Spain
	South Africa
	Czech Republic
	Turkey
	Hungary
	USA
	Cyprus (rep.)

## Wireless

Designation	Bluetooth
Antenna connection method	MCX (female)
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)
Wireless standard	Bluetooth 1.2
Transmission power	8 dBm (8 dBm, with automatic control)
Receiver sensitivity	-88.00 dBm

## Signaling

### Diagnostic messages

Diagnostics	Short-circuit or overload of the digital outputs
Message	LED

### Diagnostic messages

Diagnostics	Wireless connection
Message	FS LED

### Diagnostic messages

Diagnostics	Logic and actuator voltage
Message	LED

### Diagnostic messages

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Diagnostics	Link quality of the wireless connection
Message	4 LEDs

## Dimensions

Width	95 mm
Height	119.8 mm
Depth	57 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)
Permissible humidity (storage/transport)	95 %

### Mechanical test

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

## 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	PANEL directional wireless antenna, 8 dBi, with fixing bracket, 1 m cable

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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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