# ILB BT ADIO MUX-OMNI 8 - Wireless set

2884554

https://www.phoenixcontact.com/gb/products/2884554

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Wireless MUX set, consisting of two modules with 16 digital inputs and outputs and two analog inputs and outputs each, as well as two OMNI antennas, transmission power 8 dBm, antenna gain 2 dBi

## Commercial data

| | |
|---|---|
| Item number | 2884554 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | DNC662 |
| GTIN | 4046356535533 |
| Weight per piece (including packing) | 885.8 g |
| Weight per piece (excluding packing) | 885.8 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 | 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

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 |
| 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 |
| | Lithuania |
| | Luxembourg |

| | |
|---|---|
| | Malta |
| | Netherlands |
| | Norway |
| | Austria |
| | Poland |
| | Portugal |
| | Romania |
| | Sweden |
| | Switzerland |
| | Singapore |
| | Slovakia |
| | Slovenia |
| | Spain |
| | Czech Republic |
| | 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 (6.3 mW, controlled automatically) |

## 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

| | |
|---|---|
| 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) |

## Mounting

| | |
|---|---|
| Mounting type | DIN rail mounting |
| | DIN rail mounting |
| Assembly note | OMNI omnidirectional antenna, 2 dBi, Lambda/2, with fixing bracket, 1.5 m cable |

## Environmental product compliance

EU REACH SVHC

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


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