

## Wireless set - ILB BT ADIO MUX-OMNI - 2884208

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Wireless-MUX set, two modules with 16 digital inputs and outputs and 2 analog inputs and outputs (0 ... 20 mA, 0 ... 10 V) each, incl. omnidirectional antennas with 1.5 m cable

### Why buy this product

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



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 049597
GTIN	4046356049597
Weight per Piece (excluding packing)	885.000 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	95 mm
Height	119.8 mm
Depth	57 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
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## Technical data

### Ambient conditions

Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	95 % (non-condensing)
Permissible humidity (storage/transport)	95 % (slight temporary condensation may sometimes appear on the housing)
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above mean sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above mean sea level)
Degree of protection	IP20

### Wireless interface

Designation	Bluetooth
Wireless standard	Bluetooth 1.2
Antenna connection method	MCX (female)
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)
Transmission power	14 dBm (with automatic control)
Receiver sensitivity	-88 dBm

### Power supply for 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
Type of protection	Polarity protection, surge protection

### Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	1-wire
Number of inputs	16
Filter time	500 µs
Input characteristic curve	IEC 61131-2 type 1
Typical input current per channel	3.6 mA

### Digital outputs

Output name	Digital outputs
Connection method	Spring-cage connection
	1-wire
Number of outputs	16
Protective circuit	Short-circuit protection, overload protection, protected against reverse voltages Free running circuit
Nominal output voltage	24 V DC
Maximum output current per channel	500 mA
Nominal load, inductive	12 VA (1.2 H, 50 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W (48 Ω)

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### Analog inputs

Description of the input	Single ended
Input name	Analog inputs
Number of inputs	2
Limit frequency (3 dB)	40 Hz
Protective circuit/component	Suppressor diode
Measured value resolution	12 bits
Current input signal	0 mA ... 20 mA
Input resistance current input	110 Ω
Voltage input signal	0 V ... 10 V
Input resistance of voltage input	> 150 kΩ

### Analog outputs

Number of outputs	2
Output name	Analog outputs
DAC resolution	12 Bit
Current output signal	0 mA ... 20 mA
Load/output load current output	≤ 500 Ω
Voltage output signal	0 V ... 10 V
Load/output load voltage output	≥ 2 kΩ

### General

Housing material	PA 6.6-FR
Mounting type	DIN rail
Net weight	885 g
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))
Diagnosics messages	Short-circuit / overload of the digital outputs LED Wireless connection FS LED Logic and actuator voltage LED Link quality of the wireless connection 4 LEDs
Wireless licences	Australia (Special rule: Please contact the Product Manager) Belgium Bulgaria Denmark Germany Estonia Finland France Greece Great Britain

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## Technical data

### General

	Ireland
	Iceland
	Israel
	Italy
	Japan
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Peru (Special rule: Please contact the Product Manager)
	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.)
	South Korea
Mounting type	DIN rail mounting

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g, 11 ms period, half-sine shock pulse
Free from substances that could impair the application of coating	according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard
Connection in acc. with standard	CUL

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## Technical data

### Standards and Regulations

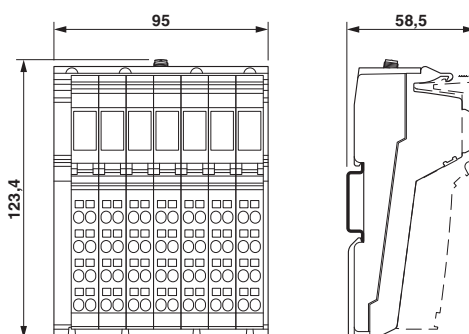
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242602
eCl@ss 7.0	27242602
eCl@ss 8.0	27242602

### ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001597
ETIM 6.0	EC001597

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## Classifications

### UNSPSC

UNSPSC 6.01	20142601
UNSPSC 7.0901	20142601
UNSPSC 11	20142601
UNSPSC 12.01	20142601
UNSPSC 13.2	20142601

## Approvals


### Approvals


#### Approvals


UL Recognized / cUL Recognized / EAC / EAC / KC / cULus Recognized


#### Ex Approvals

### Approval details


UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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EAC			EAC-Zulassung
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EAC			RU *- DE.A*30.B.01735
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KC		<a href="http://rra.go.kr/eng2/index.jsp">http://rra.go.kr/eng2/index.jsp</a>	MSIP-CRI- PCK-2884208
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	
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### Accessories

#### Accessories

#### End block

#### End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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#### End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

#### Labeling panel

#### Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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#### Simulation software

#### Software - FL WST BASIC DEMO - 2692377



Simulation software for supporting the planning of wireless systems in industrial environments. Their functionality is limited with regard to the memory options as compared with the full version FL WST BASIC.

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#### Software - FL WST BASIC - 2692254



Simulation software for supporting the planning of wireless systems in industrial environments. Thus, the later number and position of wireless components can be estimated and the quality of the radio coverage simulated.

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### Accessories

#### Terminal marking

Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm



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Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618

Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5 x 5.5 mm



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