


# ILB BT ADIO MUX-OMNI

Order No.: 2884208

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Wireless MUX set, consisting of 2 modules with 16 digital and 2 analog inputs and outputs each (4-20 mA, 0-10 V), omnidirectional antennas with 1.5 m cable, maximum emitted transmission power of 20 dBm, approvals for countries, supply voltage 24 V DC

Commercial data	
GTIN (EAN)	 4 046356 049597
sales group	K446
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 210 (AX-2009)

**Product notes**WEEE/RoHS-compliant since:  
05/06/2008

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Technical data	
<b>Wireless interface</b>	
Name	Bluetooth
Wireless standard	Bluetooth 1.2
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)
Transmission power	16 dBm (40 mW, controlled automatically)

#### Antenna

Assembly instructions	OMNI omnidirectional antenna, 2 dBi, Lambda/2, with fixing bracket, 1.5 m cable
Number	1
Type of connection	MCX (male)

#### Power supply for module electronics

Type of connection	Inline connectors
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including ripple)
Supply current	< 100 mA

#### Digital inputs

Input name	Digital inputs
Type of connection	Spring-cage connection
Connection method	1-wire
Number of inputs	16
Filter time	500 µs
Input characteristic curve	IEC 61131-2 type 1

#### Digital outputs

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

#### Analog inputs

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

#### Analog outputs

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

**General data**

Width	95 mm
Height	119.8 mm
Depth	55 mm
Weight	1200 g
Mounting type	DIN rail
Ambient temperature (operation)	-25 °C ... 60 °C
Permissible humidity (operation)	75 % (On average, no condensation)
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above mean sea level)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Mechanical tests	Shock according to IEC 60068-2-29 25g Vibration (operation) in acc. with IEC 60068-2-6:1982 5g
Diagnostics 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
	Ireland
	Iceland
	Israel
	Italy
	Japan
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	The 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
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	USA
	Cyprus (rep.)

**Certificates / Approvals**



Certification CUL, UL

**Accessories**

Item	Designation	Description
<b>Antennas</b>		
2867461	RAD-ISM-2400-ANT-OMNI-2-1	Omni-directional antenna, IP65 degree of protection, linear vertical, 2 dBi gain, cable length 1.5 m, MCX (male) connection, impedance 50 Ω, apex angle h/v 360°/75°
<b>Assembly</b>		
3022276	CLIPFIX 35-5	Snap-on end bracket, for NS 35/7.5 or NS 35/15 DIN rail, can be fitted with Zack strip ZB 5 and ZBF 5, terminal strip marker KLM 2 and KLM, parking facility for FBS...5, FBS...6, KSS 5, KSS 6, width: 5,15 mm, color: gray
3022276	CLIPFIX 35-5	Snap-on end bracket, for NS 35/7.5 or NS 35/15 DIN rail, can be fitted with Zack strip ZB 5 and ZBF 5, terminal strip marker KLM 2 and KLM, parking facility for FBS...5, FBS...6, KSS 5, KSS 6, width: 5,15 mm, color: gray
<b>Marking</b>		
0809492	ESL 62X10	Insert strip for laser printer, lettering field: 62 x 10 mm
2727501	IB IL FIELD 2	Labeling field, width: 12.2 mm
0808778	ZBF 6:SO/CMS	Zack strip, flat, 10-section, divisible, special printing, marking according to customer requirements
0803618	ZBFM 6/WH:UNBEDRUCKT	Zack marker sheet, flat, unprinted: 100-section, 10 strips à 10 markers, sufficient for 100 terminal blocks, for all terminal blocks, pitch 6.2 mm, labeling with M-PEN or CMS system, color: white
0803650	ZBFM 6:SO/CMS	Special printing, Zack marker sheet, flat, 100-section, divisible, marking according to customer requirements
<b>Software</b>		
2692254	FL WST BASIC	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.

2692377	FL WST BASIC DEMO	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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