

Bluetooth converter - PSI-WL-RS232-RS485/BT - 2708517

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Bluetooth converter for the wireless transmission of RS-232, RS-422 and RS-485 interfaces. Mounting on EN DIN rail. MCX connection for external antenna. Supply 24 V AC/DC.



Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	212.300 g
Custom tariff number	85176200
Country of origin	Sweden

Technical data

Dimensions

Width	22.5 mm
Height	99 mm
Depth	116 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

Serial interface

Interface 1	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
Interface	RS-232
Connection method	D-SUB 9 plug
File format/coding	Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length
Transmission length	max. 15 m

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Technical data

Serial interface

Data flow control/protocols	Software handshake, Xon/Xoff, or hardware handshake RTS/CTS, 3964 compatible
Serial transmission speed	0.3; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2 kbps
Interface 2	RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1
Interface	RS-422
Transmission length	max. 1200 m
Termination resistor	390 Ω (configurable)
	180 Ω
	390 Ω
Serial transmission speed	0.3; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2; 136; 187.5 kbps
Interface 3	RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire
Interface	RS-485 2-wire
Connection method	Pluggable screw connection
Transmission length	max. 1200 m
Termination resistor	390 Ω (configurable)
	180 Ω
	390 Ω
Serial transmission speed	0.3; 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2; 136; 187.5 kbps

Radio interface

Interface description	Bluetooth 2.0
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)
Transmission method	1.6 kHz (FHSS)
Transmit capacity, minimum	-28 dBm (can be set via software)
Transmit capacity, maximum	20 dBm (can be set via software)
Minimum receiver sensitivity	-83 dBm
Antenna	External
Connection method	MCX socket
Range	20 dBm (100 mW) = 80 m ... 150 m
Bluetooth Multidrop master/slave	1/7

Power supply

Nominal supply voltage	24 V AC ±20 % (via pluggable COMBICON screw terminal block)
	24 V DC ±20 % (as an alternative or redundant, via backplane bus contact and system current supply)
Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
	19 V AC ... 29 V AC (via pluggable COMBICON screw terminal block)
Typical current consumption	≤ 100 mA (24 V DC)

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Technical data

General

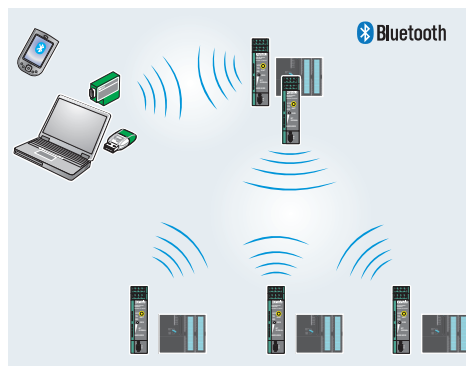
Electrical isolation	VCC // Bluetooth, RS-232, RS-422, RS-485, USB
Test voltage data interfaces	1.5 kV AC
Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
Noise emission	EN 55011
Net weight	212.3 g
Housing material	PA 6.6-FR
Color	green

Standards and Regulations

Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
Noise emission	EN 55011
Noise immunity	EN 61000-6-2:2005

Drawings

Functional drawing



Classifications

eCl@ss

eCl@ss 4.0	27230207
eCl@ss 4.1	27230207
eCl@ss 5.0	27230207
eCl@ss 5.1	27230207
eCl@ss 6.0	27230207
eCl@ss 7.0	27230207

ETIM

ETIM 2.0	EC000739
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Classifications

ETIM

ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Accessories

Accessories

Adapter cable

Data cable - PSM-KA9SUB9/BB/2METER - 2799474



RS-232 cable, 9-pos. D-SUB socket on 9-pos. D-SUB socket, 9-wire, 1:1

Data cable - PSM-KA 9 SUB 25/BB/2METER - 2761059



RS-232 cable, 9-pos. D-SUB socket 25-pos on D-SUB socket

Adapter cable - PSM-KAD-IL RS232/9SUB/B/0,8M - 2319200



Adapter cable to connect the IB IL RS232 and IB IL RS232-PRO Inline communication terminals to the interface converter, e.g. modem, Com server, Bluetooth or fiber optics.

Antenna

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Accessories

Antenna - RAD-ISM-2400-ANT-OMNI-2-1 - 2867461



Omnidirectional antenna, 2.4 GHz, gain: 2 dBi, polarization: linear, opening angle: h/v 360°/75°, degree of protection: IP65, connection: MCX (male), incl. 1.5 m / 5 ft. connecting cable and mounting bracket for wall mounting

Antenna - RAD-ISM-2400-ANT-PAN- 8-0 - 2867610



Directional antenna, 2.4 GHz, gain: 8 dBi, polarization: linear, opening angle: h/v 75°/70°, degree of protection: IP55, connection: SMA (female), incl. mounting bracket and mast clips

Coaxial cable

Antenna cable - RAD-PIG-EF316-MCX-SMA - 2867678



Antenna cable, external diameter: 3.2 mm (0.126 in.), inner conductor: flexible, attenuation: 1.0 / 1.7 / 2.7 dB at 0.9 / 2.4 / 5.8 GHz, connection: MCX (male) -> SMA (male), cable length: 1 m (4 ft.)

DIN rail connector

DIN rail bus connectors - ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - 2707437



Plug component, nominal current: 8 A, nominal current (Ex): 8 A, nominal voltage (Ex): 125 V, number of positions: 5, pitch: 3.81 mm, Articles with gold-plated contacts, bus connectors for connecting with electronic housings

Power supply

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Accessories

Power supply unit - MINI-SYS-PS-100-240AC/24DC/1.5 - 2866983



Primary-switched MINI POWER supply for DIN rail mounting, input: 1-phase, output: 24 V DC/1.5 A

Bluetooth converter - PSI-WL-PROFIB/BT-SET - 2313313



Bluetooth PROFIBUS SET, pre-configured: PROFIBUS point-to-point, PROFIBUS baud rate: 187.5 kbps, contents: 2 x Bluetooth converter + 2 x antenna
