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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Bidirectional, Radioline 900 MHz transceiver for wireless transmission of serial and I/O data

Product Description

Radioline is the new wireless system for large systems. Special features include extremely easy assignment of inputs and outputs by simply turning the thumbwheel - without any programming. Radioline transmits I/O signals (I/O mode) or serial data (serial mode) and is therefore very versatile. Alternatively, I/O signals can now also be connected to controllers directly using the Modbus protocol (PLC/Modbus RTU mode). In addition, you can implement various network structures: from a simple point-to-point connection to complex mesh networks. Thanks to the latest Trusted Wireless technology, Radioline is the ideal choice for industrial use.

Product Features

- Range of several kilometers thanks to adjustable data rates for the wireless interface (16 ... 500 kbps)
- ☑ Integrated RS-232/RS-485 interface
- ☑ Quick and easy startup without programming
- High degree of reliability due to Trusted Wireless 2.0 technology (AES encryption, frequency hopping method, and coexistence management)
- Mesh networks of up to 250 devices









Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	350.0 g
Custom tariff number	85176200
Country of origin	United States

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.

Dimensions



Technical data

Dimensions

Width	35 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
	-40 °F 158 °F
Ambient temperature (storage/transport)	-40 °C 85 °C
	-40 °F 185 °F
Permissible humidity (operation)	20 % 85 %
Permissible humidity (storage/transport)	20 % 85 %
Altitude	2000 m
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz 150 Hz
Shock	16g, 11 ms

General

Overvoltage category	II .
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Pollution degree	2
Housing material	PA 6.6-FR
Flammability rating according to UL 94	V0
Export note	The products are offered exclusively for export outside the European Economic Area (EEA).

Supply

Supply voltage range	10.8 V DC 30.5 V DC
Max. current consumption	328 mA (@24 V DC)
Nominal power consumption	1.7 W (30 dBm)
Power consumption	8.4 W (peak; 30 dBm)
Transient surge protection	Yes

Wireless interface

Antenna connection	RSMA (female)
Direction	Bi-directional
Frequency	900 MHz
Frequency range	902 MHz 928 MHz
Data rate	16 kbps (adjustable)
	125 kbps (adjustable)
	250 kbps (adjustable)



Technical data

Wireless interface

	500 kbps (adjustable)
Receiver sensitivity	-112 dBm (16 kbps)
	-105 dBm (125 kbps)
	-102 dBm (250 kbps)
	-95 dBm (500 kbps)
Transmission power	max. 1 W (adjustable)
Range	± 32 km (The range may be considerably above or below that stated, and depends on the environment, antenna technology, and the product used)
Security	128-bit data encryption

Serial interface

Interface 1	RS-232
Connection method	COMBICON plug-in screw terminal block
	D-SUB 9 (socket)
	3-conductor
Transmission speed	0.3 115.2 kbps
Interface 2	RS-485
Connection method	COMBICON plug-in screw terminal block
	2-wire
Termination resistor	390 Ω (switchable via DIP switches)
	150 Ω (switchable via DIP switches)
	390 Ω (switchable via DIP switches)
Transmission speed	0.3 115.2 kbps

RSSI output

Number of outputs	1
Voltage output signal	0 V 3 V

RF link relay output

Number of outputs	1
Contact type	PDT
Contact material	PdRu, gold-plated
Maximum switching voltage	30 V AC/DC
Max. switching current	500 mA
Electrical service life	5 x 10 ⁵ cycles with 0.5 A @ 30 V DC

Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²



Technical data

Connection data

Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	7 mm
Tightening torque	0.6 Nm
Screw thread	M3

Status indicator

Status display	Green LED (supply voltage, PWR)		
	Green LED (bus communication, DAT)		
	Red LED (periphery error, ERR)		
	3 x green, 1 x yellow LED (LED bar graph receive quality, RSSI)		
	Green LED (receive data, RX)		
	Green LED (transmit data, TX)		

Approvals and conformance

Conformance	FCC Directive, Part 15.247	
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D	
Standards/regulations	EN 300328	
	EN 61000-6-2	
	EN 61000-6-4	
	EN 50371	
	EN 60950-1	

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Standards/regulations	EN 300328
	EN 61000-6-2
	EN 61000-6-4
	EN 50371
	EN 60950-1
Shock	16g, 11 ms
Flammability rating according to UL 94	V0
Interface description	Trusted Wireless
Security	128-bit data encryption
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz 150 Hz
Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210



Technical data

Standards and Regulations

UL, USA	Class I, Zone 2, AEx nA nC IIC T4	
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D	
UL, Canada	Class I, Zone 2, Ex nA nC nL IIC T4 Gc X	
CSA	CSA C22.2	

Classifications

eCl@ss

eCl@ss 4.0	27230207
eCl@ss 4.1	27230207
eCl@ss 5.0	27230207
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	19179290

ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC000310
ETIM 5.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	43223108
UNSPSC 11	39121008
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

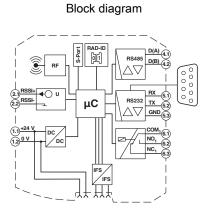
UL Listed / cUL Listed / cULus Listed



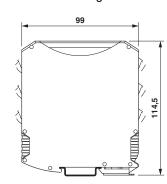
Approvals Approval submitted Approval details UL Listed CUL Lis

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cULus Listed **		

Drawings



Dimensional drawing



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