

WirelessHART gateway - RAD-WHG/WLAN-XD - 2900178

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Gateway between WirelessHART field devices and 802.11b/g

Product Description

WirelessHART gateway to 802.11b/g Ethernet

Why buy this product

- ✓ WirelessHART gateway supports 250 WirelessHART devices
- ☑ Easy programming and diagnostics using an integrated web server or HART programming device
- ☑ 802.11b/g client can be used as a WirelessHART backhaul connection with 802.11i (WPA2) 128-bit AES encryption
- ✓ WirelessHART uses "channel hopping" for interference tolerance



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 543569
GTIN	4046356543569

Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	114.5 mm
Width	45 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C



WirelessHART gateway - RAD-WHG/WLAN-XD - 2900178

Technical data

Ambient conditions

Degree of protection	IP20

Wireless path

Interface description	WLAN as per IEEE 802.11 b/g
Direction	Bi-directional
Frequency range	2.4 GHz 2.472 GHz
Transmit capacity, minimum	0 dBm
Transmit capacity, maximum	20 dBm
Channel distance	5 MHz
Number of channel groups	13
Antenna connection method	RSMA (female)
Interface description	WirelessHART
Note	Test loops connect HART programming tool
Antenna	External
Antenna connection method	RSMA (female)
Frequency range	2.4 GHz 2.4835 GHz
Transmit capacity, minimum	0 dBm
Transmit capacity, maximum	10 dBm
Channel distance	5 MHz
Number of channel groups	15

Serial interface

Connection method	RJ45
Serial transmission speed	10/100 Mbps

Supply

Supply voltage	24 V DC
Supply voltage range	9 V DC 30 V DC
Typical current consumption	125 mA (at 24 V DC)
Max. current consumption	300 mA (at 24 V DC)
Nominal power consumption	5.1 W (typical)

General

Mounting position	any
Assembly instructions	NS 35 in acc. with EN 60715
Housing material	Polyamide PA non-reinforced

Connection data

Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24



WirelessHART gateway - RAD-WHG/WLAN-XD - 2900178

Technical data

Connection data

Conductor cross section AWG max.	14
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

Standards and Regulations

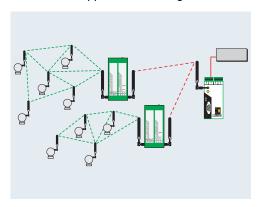
Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
Interface description	WLAN as per IEEE 802.11 b/g
Channel distance	5 MHz
Interface description	WirelessHART
Channel distance	5 MHz
Conformance	CE-compliant
	FCC Directive, Part 15.247
	CE-compliant (RED Directive 2014/53/EU)
	ATEX 2014/34/EU
ATEX	Ex nA IIC T4 Gc; Sira 10ATEX4252X
IECEx	Ex nA IIC T4; IECEx CSA 10.0008X

Environmental Product Compliance

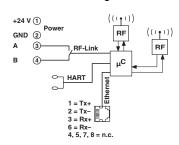
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Application drawing



Block diagram





Phoenix Contact 2018 © - all rights reserved http://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany Tel. +49 5235 300

Fax +49 5235 3 41200

http://www.phoenixcontact.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for WiFi Modules - 802.11 category:

Click to view products by Phoenix Contact manufacturer:

Other Similar products are found below:

KBPC10/15/2506WP WIFI-RT5392-SB-R10 SX-PCEAN2C-SP 849WM520100E WIFI-AT2350 7265.NGWG.SW HDG204-DN-3 FXX-3061-MIX EMIO-1533-00A2 PPC-WL-KIT02-R11 RC-CC2640-B HLK-7688A E70-433T14S WH-NB73-BA NF-02-PA EAR00364 ATSAMW25H18-MR210PB1961 3168.NGWG MY-WF003U AX210.NGWG.NV ESP-15F32Mbit ESP32-S32Mb TG-01M ESP-13 ESP-01F-2M ESP-01E-2M ESP-12S-8285-2M ESP-20 ESP32-SL ESP-12K-PSRAM ESP-12K ESP-12K-PSRAM-IPEX ESP-12H BW18 BW12-16Mb BW14 BW15 BW16 TG-12F SIM7600CE-L1S CB3S(tjrl) CB3S(hvk9) CB3S(qh6) WB2S(csyd) WB3S(ppty) WB3S(h238) WB3S(uvmz) 1005869 1012 QCA4004X-BL3B