

WF-2251

Wi-Fi I/O Module with Isolated 16-ch (Dry, Wet) DI
(Asia Only)

Features

- Compatible with IEEE 802.11a/b/g/n standards
- Support WEP, WPA and WPA2 wireless encryption
- Support Modbus TCP protocols
- Built-in Watchdog
- Built-in I/O
  - -DI/Counter: 16 Channels

Introduction

The WF-2251 is a dual bands 2.4/5 GHz Wi-Fi interface and 16-channel dry/wet contact digital input with 32-bit counters module. With the popularity of 802.11 network infrastructure, the WF-2251 makes an easy way to incorporate wireless connectivity into monitoring and control systems. The WF-2251 also supports Modbus TCP protocol and the network encryption configuration, which makes perfect integration to SCADA software and offer easy and safe access for users from anytime and anywhere.

Specifications

Isolation	
Intra-module Isolation	DI: 3750 VDC
Wi-Fi	
Transmission Distance (LoS)	50 meters (LOS)
Standard	IEEE 802.11 a/b/g/n
RX Sensitivity	-95 dBm @ 2.4 GHz -90 dBm @ 5 GHz
Output Power	15 dBm (Max.)
Operation Mode	Infrastructure & Limit-AP
Encryption	WEP, WPA and WPA2
Antenna	Omni-Directional 3 dBi @ 2.4 GHz 5.5 dBi @ 5 GHz
Digital Input/Counter	
Channels	16 Counters: 8
Type	Dry Contact ; Wet Contact
Sink/Source (NPN/PNP)	Dry: Source ; Wet: Sink/Source
ON Voltage Level	Dry: Close to GND ; Wet: +10 ~ 50 VDC
OFF Voltage Level	Dry:Open ; Wet: +4 VDC Max
Max. Counts	32-bit (4294967295)
Frequency	8K Hz Max.
Power	
Input Range	+10 VDC ~ +30 VDC
Consumption	1.2 W
Mechanical	
Dimensions (mm)	33 x 127 x 107 (W x L x H)(Without antenna)
Installation	DIN-Rail Mounting
Environment	
OperatingTemperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
-30 ~ +80 °C	10 ~ 90% RH, Non-condensing

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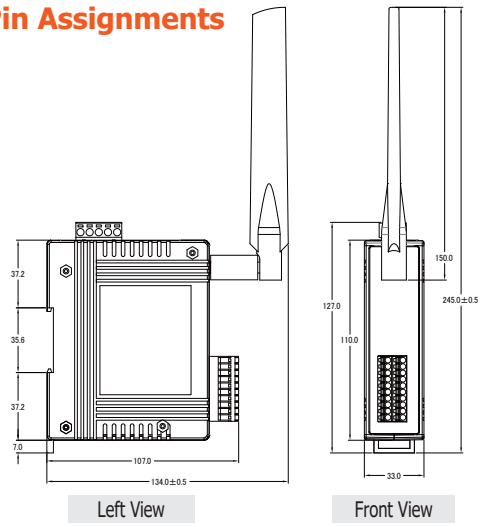
Applications



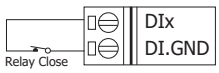
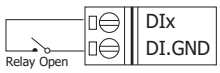
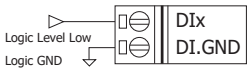
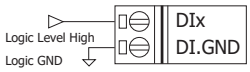
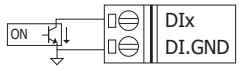
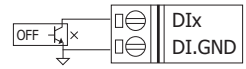
Dimensions (Units: mm)

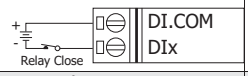
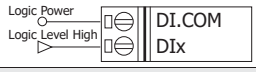
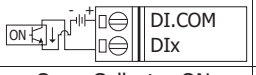
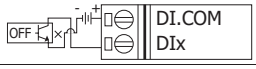
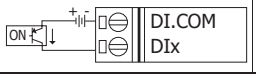
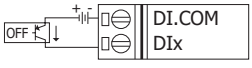
Pin Assignment	Terminal No.		Pin Assignment
DI.GND	20	19	DI.GND
D18	18	17	DI0
D19	16	15	DI1
DI10	14	13	DI2
DI11	12	11	DI3
DI12	10	09	DI4
DI13	08	07	DI5
DI14	06	05	DI6
DI15	04	03	DI7
DI.COM	02	01	DI.COM

Pin Assignments



Wire Connections

Input Type Dry Contact	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
Relay Contact	Relay ON	Relay OFF
		
TTL/CMOS Logic	Voltage < 4 V	Voltage > 10 V
		
Open Collector	Open Collector ON	Open Collector OFF
		

Input Type Wet Contact	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
Relay Contact	Relay ON	Relay OFF
		
TTL/ CMOS Logic	Voltage > 10V	Voltage < 4V
		
NPN Output	Open Collector ON	Open Collector OFF
		
PNP Output	Open Collector ON	Open Collector OFF
		

Ordering Information

WF-2251CR	Wi-Fi I/O Module with Isolated 16-ch (Dry, Wet) DI (Asia Only) (RoHS) Includes ANT-225-5 Antenna and CA-0910 Cable

Accessories

	**3S001-1 CR**	Antenna Extension Cable, RG58A/U, RP-SMA Male to RP-SMA Female, 1 M (RoHS)
	**3S003-1 CR**	Antenna Extension Cable, RG58A/U, RP-SMA Male to RP-SMA Female, 3 M (RoHS)
	**3S005-1 CR**	Antenna Extension Cable, RG58A/U, RP-SMA Male to RP-SMA Female, 5 M (RoHS)
	**3S008-1 CR**	Antenna Extension Cable, RG58A/U, RP-SMA Male to RP-SMA Female, 8 M (RoHS)

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