



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	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
-30 ~ +80 °C	10 ~ 90% RH, Non-condensing

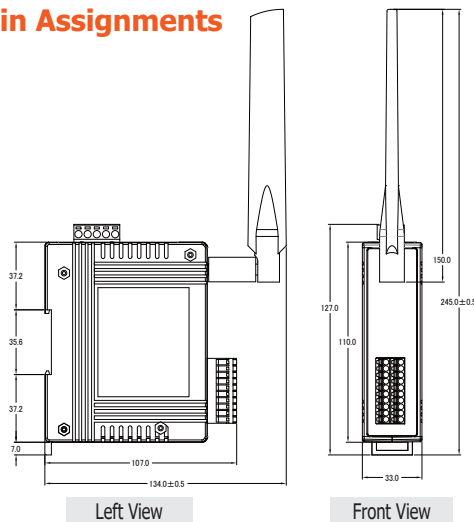
Applications



Dimensions (Units: mm)

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

Pin Assignments



Wire Connections

Input Type	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	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
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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)