

WF-2255

Wi-Fi I/O Module with Isolated 8-ch (Dry, Wet) DI, Isolated 8-ch (Sink, NPN) DO (Asia Only)

Features

- Compatible with IEEE 802.11a/b/g/n standards
- Support WEP, WPA and WPA2 wireless encryption
- Support Modbus TCP protocols
- Support I/O pair connection mode
- Built-in Watchdog
- Built-in I/O
  - -DI/Counter: 8 Channels
  - -DO: 8 Channels

Introduction

The WF-2255 is a dual bands 2.4/5 GHz Wi-Fi interface and 8-channel isolated digital input with 32-bit counters, 8-channel sink type isolated digital outputmodule. With the popularity of 802.11 network infrastructure, the WF-2255 makes an easy way to incorporate wireless connectivity into monitoring and control systems. The WF-2255 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.

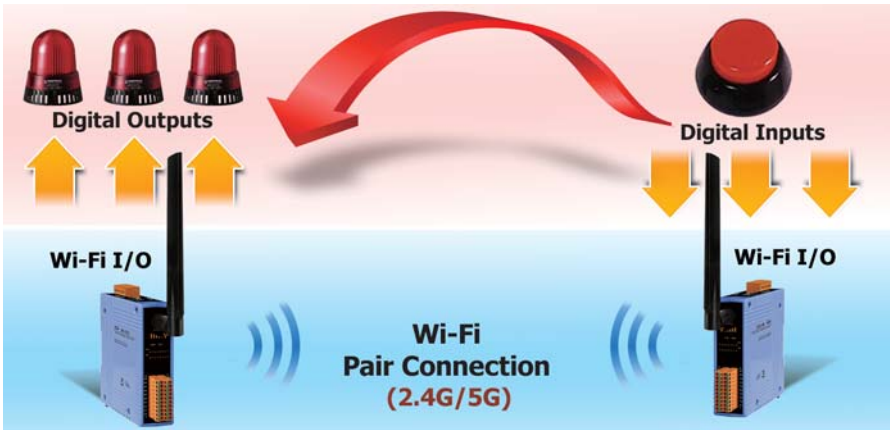
Specifications

Isolation	
Intra-module Isolation	DI: 3750 VDC DO: 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	8 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.

Digital Output	
Channels	8
Type	Open Collector
Digital Output	
Sink/Source (NPN/PNP)	Sink (NPN)
Load Voltage	+3.5 VDC ~ +50 VDC
Load Current	700 mA per channel
Overvoltage Protection	60 VDC
Power	
Input Range	+10 VDC ~ +30 VDC
Consumption	1.9 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
Humidity	10 ~ 90% RH, Non-condensing

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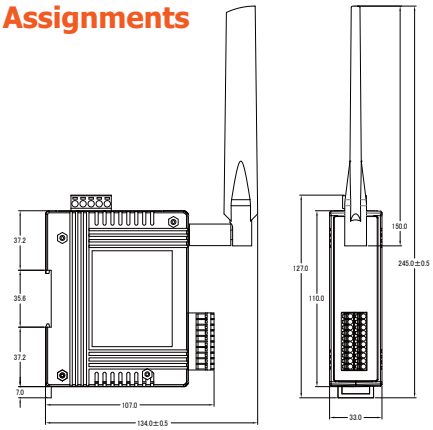
Applications



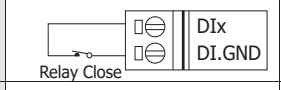
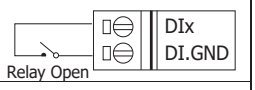
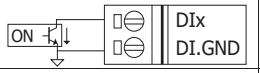
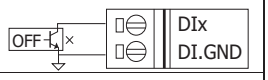
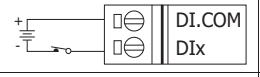
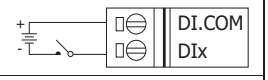
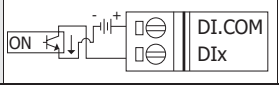
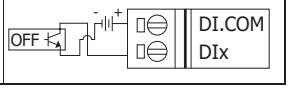
Dimensions (Units: mm)

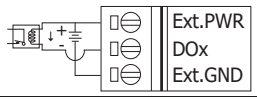
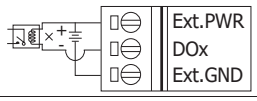
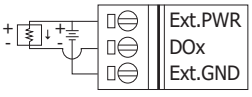
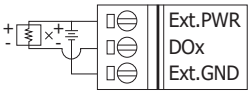
Pin Assignment	Terminal No.		Pin Assignment
EXT.GND	20	19	DI.GND
DO0	18	17	DI0
DO1	16	15	DI1
DO2	14	13	DI2
DO3	12	11	SI3
DO4	10	09	DI4
DO5	08	07	DI5
DO6	06	05	DI6
DO7	04	03	DI1
EXT.PWR	02	01	DI.COM

Pin Assignments



Wire Connections

Input Type Wet Contact	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
Relay Contact (Dry)		
Open Collector (Dry)		
Relay Contact (Wet)		
NPN Output (Wet)		

Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Drive Relay		
Resistance Load		

Ordering Information

WF-2255CR	Wi-Fi I/O Module with Isolated 8-ch (Dry, Wet) DI, Isolated 8-ch (Sink, NPN) DO (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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