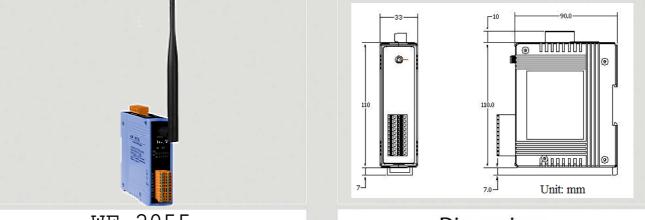
Wi-Fi Series

Wi-Fi Series Products

Wi-Fi Data Acquisition I/O Module (8DI / 8DO)



WF-2055

Dimensions

Kins CE FC

The WF-2055 is an 8-channel isolated digital input with 32-bit counters and 8-channel sink type isolated digital output module and it is one of the members of the WF-2000 wireless product family. In addition, the WF-2055 has WLAN connection complies with the IEEE802.11b/g standards. With the popularity of 802.11 network infrastructure, the WF-2055 makes an easy way to incorporate wireless connectivity into monitoring and control systems. The WF-2055 also supports Modbus/TCP and UDP protocols and the network encryption configuration, which makes perfect integration to SCADA software and offer easy and safe access for users from anytime and anywhere.

Features

- Support sink type digital outputs
- Support sink / source type digital inputs
- Compatible with IEEE 802.11b/g standards
- Support infrastructure and ad hoc modes for wireless networks
- Support WEP, WPA and WPA2 wireless encryption
- Support Modbus/TCP and UDP protocols
- Support pair connection mode
- Support DO power on value & safe value Mechanism
- Built-in Watchdog

Utility Features

WF-2000 I/O Utility provides a simple way to easily test and instant acquire data for all ICP DAS Wi-Fi I/O series modules without programming

- Easily and quickly configure and test Wi-Fi I/O modules
- Provide I/O monitor screen
- Provide parameter storage interface
- Provide encryption configuration for wireless LAN

Configuratio	on Abou	t						
Connection - Client					Por	t Number	- 1 [Net ID
Connec	t to	WF-2000:	192 . 168 .	29 . 2		ad To IP Connection:	WF-2000	(192.168.29.2)
votem Message								
F-2055 (192 1) F-2055 (192 1)	68 29 2)> 68 29 2)>	READ READ		* +		Clear Messag	.	Close Socket
				P				
MDI States								
	CH0	CH1	CH2	CH3	CH4	CH5	CH6	CH7
DO	۲	۲	۲	۲	۲	۲	۲	۵
DI	•		0	۲	•	•	•	•
DO Active	5	9	•	5	•	•	₹	•
umier Status —								
	CH0	CHI	CH2	CH3	CH4	CH5	CH6	CH7
Counter	1	1	1	1	1	1	1	1
	Reset	Reset	Reset	Reset	Reset	Reset	Reset	Reset
e Name: WF								ICP DAS C

Wire Connection

Input	ON	OFF		
Relay Contact (Dry)	Relay Black	Relay DIx Open GND		
Open Collector (Dry)		OFF-t → B GND		
Relay Contact (Wet)	+ Relay Close	+ DI.COM Relay Open		
NPN Output (Wet)				
Output	ON	OFF		
Drive Relay	Ext.PWR DOx Ext.GND	Ext.PWR DOx Ext.GND		
Resistance Load	± ± ± = = Ext.PWR DOx = Ext.GND	± ∎x ±= □⊕ Ext.PWR DOx Ext.GND		



Hardware Specifications

Digital Input						
Channels		8				
Input Type		Dry Contact: Source, Wet Contact: Sink / Source				
Dry Contact Level		Off Voltage Level: Open	On Voltage Level: Close to GND			
Wet Contact Lev	vel	Off Voltage Level: +4V max.	On Voltage Level: +10 V ~ +50 V			
	Channels	8				
Counters	Max. Counts	32-bit (4294967295)				
	Max. Input Frequency	10K Hz				
Photo-Isolation		3750 VDC				
Digital Output						
Channels		8, Sink(NPN)				
Output Voltage		+3.5 ~ +50 V				
Output Current		700mA per channel				
	olation, Field to Logic	3750 VDC				
Overvoltage Protection		60 VDC				
Wi-Fi Interface						
Antenna		5 dBi (Omni-Directional)				
Output Power		8 dBm @ 11Mbps				
Receive Sensitiv		-83 dBm @ 11Mbps				
Standard Support	rted	IEEE 802.11b/g				
Wireless Mode		Infrastructure & Ad-hoc				
Encryption		WEP, WPA and WPA2				
Transmission Ra	ange	50 meters (LOS)				
Power						
Input Voltage R	ange	10V ~ 30V				
Power Consump	otion	1.9W				
Mechanism						
Installation		DIN-Rail				
Dimensions		110mm x 90mm x 33mm (H x W x D)				
Environment						
Operating Temp	erature	-25°C ~ +75°C				
Storage Temper	ature	-30°C ~ +80°C				
Humidity		10% ~ 90%				

Wi-Fi Serie

Applications



Connection architecture

Ordering Information

WF-2055 CR

Wi-Fi I/O Module with 8-channel Isolated Digital Input and 8-channel Sink Type Isolated Digital Output (RoHS)

I/O Pair Connection