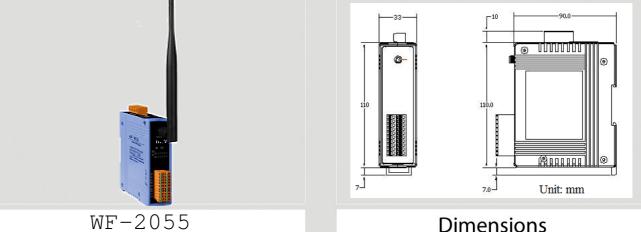
Wi-Fi Series Products

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



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							
Client Client Connec	1 10	WF-2000:	192 . 168 . :	29 . 2	Sen			Net ID
System Message							141-2000	(192.100.29.2)
WF-2055 (192.1 WF-2055 (192.1	68 29 2)> 68 29 2)> 111	READ READ				Clear Message	,	Close Socket
O/DI States								
	CH0	CH1	CH2	CH3	CH4	CH5	CH6	CH7
DO	۲	۲	۲	۲	9	۲	9	۲
DI	•	9	•	9	9	•	9	•
DO Active	•	4	~	7	9		₽	•
Counter Status								
	CHO	CH1	CH2	CH3	CH4	CH5	CH6	CH7
Counter	1	1	1	1	1	1	1	1
	Reset	Reset	Reset	Reset	Reset	Reset	Reset	Reset
ule Name: Wi	2055							ICP DAS C

Kins CE FC

Wire Connection

Input	ON	OFF
Relay Contact (Dry)	Relay Black	Relay DEX Open GND
Open Collector (Dry)		OFF-K ≈ GND
Relay Contact (Wet)	+ Relay Close	+ Relay Open
NPN Output (Wet)		
Output	ON	OFF
Drive Relay	Ext.PWR DOx Ext.GND	Ext.PWR DOx Ext.GND
Resistance Load	± t ± t t t t t t t t t t t t t t t t t	± ∎ ± ∎ ± ± ± ± ± ± t t t t t t t t t t t t t



Vi-Fi Serie

Hardware Specifications

Dry Contact LevelOffWet Contact LevelOffCountersChannelsMax. Counts32-bMax. Input Frequency10KPhoto-Isolation3750Digital Output3750Channels8, SiOutput Voltage+3.5Output Voltage+3.5Output Current700rIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface5 dBOutput Power8 cReceive Sensitivity-83 c	Contact: Source, Wet Contact Voltage Level: Open Voltage Level: +4V max.	: Sink / Source On Voltage Level: Close to GND On Voltage Level: +10 V ~ +50 V				
Dry Contact LevelOffWet Contact LevelOffCountersChannelsMax. Counts32-bMax. Input Frequency10KPhoto-Isolation3750Digital Output3750Channels8, SiOutput Voltage+3.5Output Voltage+3.5Output Current700rIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface5 dBOutput Power8 cReceive Sensitivity-83 c	Voltage Level: Open Voltage Level: +4V max.	On Voltage Level: Close to GND				
Wet Contact Level Off Counters Channels 8 Max. Counts 32-b Max. Input Frequency 10K Photo-Isolation 3750 Digital Output 3750 Channels 8, Si Output Voltage +3.5 Output Voltage +3.5 Output Current 700r Intra-module Isolation, Field to Logic 3750 Overvoltage Protection 60 V Wi-Fi Interface 400 V Output Power 8 of Receive Sensitivity -83 of	Voltage Level: +4V max.					
CountersChannels8Max. Counts32-bMax. Input Frequency10KPhoto-Isolation3750Digital OutputChannels8, SiOutput Voltage+3.5Output Voltage+3.5Output Current700rIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface5 dBOutput Power8 cReceive Sensitivity-83 c		On Voltage Level: +10 V ~ +50 V				
CountersMax. Counts32-bMax. Input Frequency10KPhoto-Isolation3750Digital Output8Channels8, SiOutput Voltage+3.5Output Voltage+3.5Output Current700rIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface5 dBOutput Power8 cReceive Sensitivity-83 c	bit (4294967295)					
Max. Input Frequency10KPhoto-Isolation3750Digital Output3750Channels8, SiOutput Voltage+3.5Output Voltage+3.5Output Current700nIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface5 dBOutput Power8 cReceive Sensitivity-83 c	oit (4294967295)					
Photo-Isolation3750Digital Output3750Channels8, SiOutput Voltage+3.5Output Current700nIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface5 dBOutput Power8 cReceive Sensitivity-83 c	32-bit (4294967295)					
Digital OutputChannels8, SiOutput Voltage+3.5Output Current700rIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface400 VAntenna5 dBOutput Power8 cReceive Sensitivity-83 c	10K Hz					
Channels8, SiOutput Voltage+3.5Output Current700rIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface400 VAntenna5 dBOutput Power8 cReceive Sensitivity-83 c	3750 VDC					
Output Voltage+3.5Output Current700rIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface60 VAntenna5 dBOutput Power8 cReceive Sensitivity-83 c						
Output Current700rIntra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi Interface60 VAntenna5 dBOutput Power8 cReceive Sensitivity-83 c	8, Sink(NPN)					
Intra-module Isolation, Field to Logic3750Overvoltage Protection60 VWi-Fi InterfaceAntenna5 dBOutput Power8 cReceive Sensitivity-83 c	+3.5 ~ +50 V					
Overvoltage Protection60 VWi-Fi InterfaceAntenna5 dBOutput Power8 cReceive Sensitivity-83 c	700mA per channel					
Wi-Fi InterfaceAntenna5 dBOutput Power8 cReceive Sensitivity-83 c	3750 VDC					
Antenna5 dBOutput Power8 cReceive Sensitivity-83 c	60 VDC					
Output Power8Receive Sensitivity-83						
Receive Sensitivity -83 of	5 dBi (Omni-Directional)					
•	8 dBm @ 11Mbps					
Standard Supported IEE	-83 dBm @ 11Mbps					
	IEEE 802.11b/g					
Wireless Mode Infra	Infrastructure & Ad-hoc					
Encryption WEI	WEP, WPA and WPA2					
Transmission Range 50 m	50 meters (LOS)					
Power						
Input Voltage Range 10V	10V ~ 30V					
Power Consumption 1.9V	1.9W					
Mechanism						
Installation DIN	DIN-Rail					
Dimensions 33m	33mm x106mm x 120mm (W x L x H)					
Environment						
Operating Temperature -25°	-25℃ ~ +75℃					
Storage Temperature -30°	-30°C ~ +80°C					
	$C \sim \pm 00 C$	10% ~ 90%				

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-Fi I/O

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Wi-Fi

Pair Connection

I/O Pair Connection

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