

Wi-Fi Series Products

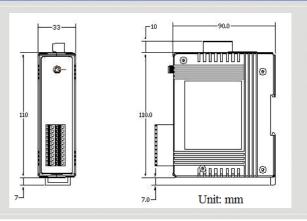
Wi-Fi Data Acquisition I/O Module (8/16 AI)











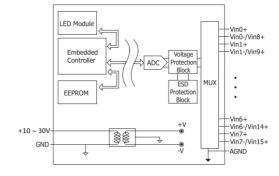
Dimensions

The WF-2017 is a Wi-Fi interface and 8-channel Differential/16-channel Single-Ended analog input module. The analog input range is software selectable and supports +/-10V, +/-5V, +/-1V, +/-500mV, +/-150mV, and +/-20mA. Differential and Single-ended mode is selected by jumpers. With the popularity of 802.11 network infrastructure, the WF-2017 makes an easy way to incorporate wireless connectivity into monitoring and control systems. The WF-2017 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

- 8-channel Differential Analog Input
- 16-channel Single-ended Analog Input
- Compatible with IEEE 802.11b/g standards
- Support WEP, WPA and WPA2 wireless encryption
- Support Modbus/TCP and UDP protocols
- Support DHCP network configuration
- 4 kV ESD Protection
- Built-in Watchdog

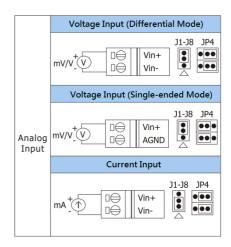
Internal I/O Structure



Pin Assignment

Pin Assignment Name		Terminal No.		Pin Assignment Name	
V0-/V8+	20			19	V0+
V1-/V9+	18			17	V1+
V2-/V10+	16			15	V2+
V3-/V11+	14			13	V3+
V4-/V12+	12			11	V4+
V5-/V13+	10			9	V5+
V6-/V14+	8			7	V6+
V7-/V15+	6			5	V7+
AGND	4			3	AGND
AGND	2			1	AGND

Nire Connection





Hardware Specifications

Channels	8-ch Differential /	8-ch Differential / 16-ch Single-ended(Note), Jumper Selectable							
T	Voltage: ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V								
Input Type	Current : 0 ~ +20 mA, +4 ~ +20 mA, ±20 mA (Jumper Selectable)								
Resolution	16 bit								
Accuracy	±0.1% FSR	±0.1% FSR							
Sampling Rate	10 Hz (Total)								
Zero Drift	±20 μV/°C	±20 μV/°C							
Span Drift	±25 ppm/°C	±25 ppm/°C							
Common Mode Rejection	86 dB Min.	86 dB Min.							
Normal Mode Rejection	100 dB	100 dB							
Input Impedance	Differential	2 M Ω	Cingle anded	1 M Ω					
Overvoltage protection	Differential	240 Vrms	Single-ended	150 Vrms					
Individual Channel Configuration	Yes								
Wi-Fi Interface									
Antenna	5 dBi (Omni-Direc	5 dBi (Omni-Directional)							
Output Power	8 dBm @ 11Mbp	8 dBm @ 11Mbps							
Receive Sensitivity	-83 dBm @ 11Mb	-83 dBm @ 11Mbps							
Standard Supported	IEEE 802.11b/g								
Wireless Mode	Infrastructure & A	Infrastructure & Ad-hoc							
Encryption		WEP, WPA and WPA2							
Transmission Range	50 meters (LOS)	50 meters (LOS)							
Isolation									
Intra-module Isolation, Field-to-Logic	3000 VDC	3000 VDC							
Power									
Input Voltage Range	10V ~ 30V	10V ~ 30V							
Power Consumption	2.2W								
Mechanism									
Installation	DIN-Rail	DIN-Rail							
Dimensions	33mm x 106mm x	33mm x 106mm x 120mm (W x L x H)							
Environment		· ·							
Operating Temperature	-25°C ~ +75°C	-25°C ~ +75°C							
Storage Temperature	-30°C ~ +80°C								
Humidity	10% ~ 90%								
Note: Differential mode can be used for voltage	ge input and current inp	ut. Single-Ended r	node can be used for v	oltage input or					

Applications



Ordering Information

WF-2017 CR

8-channel Differential/16-channel Single-Ended Analog Input Wi-Fi I/O Module (RoHS)