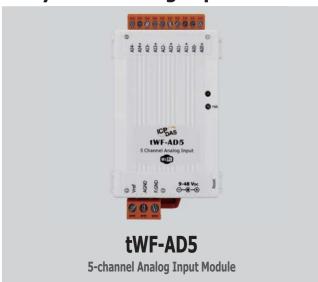


Tiny Wi-Fi Analog Input Module



■ Introduction .

The tWF-AD5 module have 5 channels differential analog input as WLAN connection complies with the IEEE802.11b/g/n standards. With the popularity of 802.11 network infrastructure, the tWF-AD5 module make an easy way to incorporate wireless connectivity into monitoring and control systems. They also support Modbus TCP protocol and the network encryption configuration, which makes perfect integration to SCADA software or HMI Modbus APP and offer easy and safe access for users from anytime and anywhere.

■ System Specifications _

= System Specifications				
Communication				
Interface	Wi-Fi 2.4G			
Standard	IEEE 802.11 b/g/n			
Encryption	WEP, WPA/WPA2-PSK			
Mode	Access Point (AP) & Station (STA)			
IP Configuration	DHCP Server (AP, 1 client), DHCP Client, Static IP (STA)			
Service	TCP, HTTP, Modbus TCP			
LED Indicators				
Power	One 2 colors LED, Blue for System status, Red for Connective status/Locator			
Isolation				
Intra-module Isolation, Field-to-Logic	2500 VDC			
EMS Protection				
ESD (IEC 61000-4-2)	±2 kV Contact for Each Terminal			
	±3 kV Air for Random Point			
EFT (IEC 61000-4-4)	±4 kV for Power			
Power Requirements				
Reverse Polarity Protection	Yes			
Powered from Power Jack	9 ~ 48 VDC			
Consumption	0.84 W Max.			
Mechanical				
Dimensions (W x L x H)	52 mm x 97 mm x 27 mm			
Installation	DIN-Rail Mounting			
Environment				
Operating Temperature	-20 ~ +75°C			
Storage Temperature	-30 ∼ +80°C			
Humidity	10 ~ 95% RH, Non-condensing			

■ Features

- Wi-Fi communication remote Analog Input module.
- Both Access Point (AP) & Station (STA) mode support
- PC utility, Android APP, Web browser support (HTML)
- MODBUS TCP support
- Wide power supply range
- Wide operating temperature range
- Isolation differential voltage input
- 14/12 bit resolution in Normal/Fast mode
- Cost-effective





Applications .

- Building Automation
- Security Automation
- Machine Automation
- Factory Automation
- Testing Equipment
- Remote Diagnosis
- Remote Maintenance

■ Software Utility __

os	Access Point(AP)	Station(STA)
Windows	Utility	IP Scanner (1) & Utility
Android	APP	IP Scanner (1) & APP
Web Browser	Yes	Yes
Modbus TCP	Yes (2)	Yes (2)

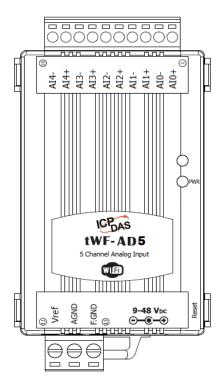
- (1) Free IP Scanner
- (2) PC or Android Freeware

■ I/O Specifications _

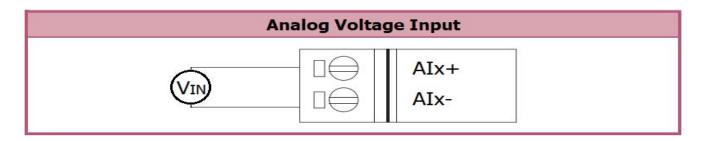
Model		tWF-AD5		
Analog Input				
Input Channels		5 Differential		
Туре		±1.25 V, ±2.5 V, ±5 V, ±10 V		
Resolution	Normal Mode	14-bit		
	Fast Mode	12-bit		
Sampling Rate	Normal Mode	14Hz (Max) total		
	Fast Mode	180Hz (Max) total		
Accuracy	Normal Mode	+/-0.1%		
	Fast Mode	+/-0.5%		
Zero Drift		+/- 20 μV/°C		
Span Drift		+/- 25 ppm/°C		
Input Impedance		20 ΜΩ		
Self calibration Reference output		+2.50V ±0.01V		



■ Pin Assignments .



■ Wire Connections _



■ Product Photo

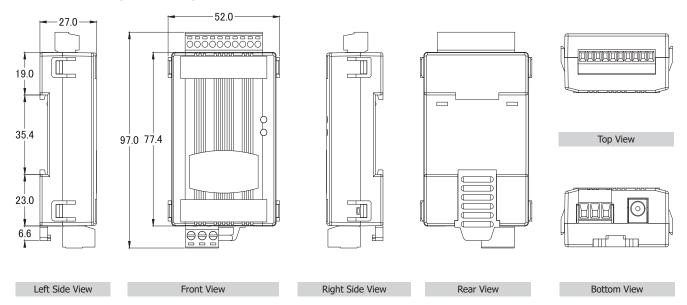








■ Dimensions (Units: mm) _



Ordering Information _

tWF-AD5 CR

5-channels Analog Input Module (RoHS)