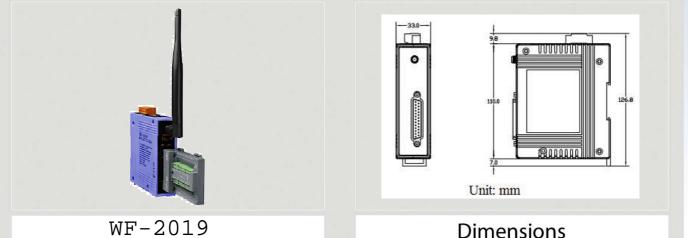
Wi-Fi Series Products

Wi-Fi Data Acquisition I/O Module (10 Universal AI) with CE FC

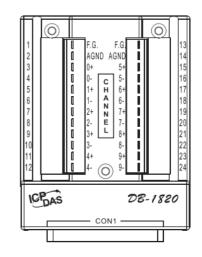


The WF-2019 is a 10-channel universal analog input module with voltage and current input types. It provides extremely accurate thermocouple measurement and automatically cold-junction compensation for each channel. In addition, the WF-2019 has WLAN connection complies with the IEEE802.11b/g standards. With the popularity of 802.11 network infrastructure, the WF-2019 makes an easy way to incorporate wireless connectivity into monitoring and control systems. The WF-2019 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.

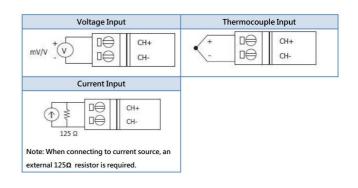
Features

- 10 Differential Universal Analog Input Channels
- Supports thermocouple devices with J, K, T, E, R, S, B, N, C types
- Compatible with IEEE 802.11b/g standards
- Support WEP, WPA and WPA2 wireless encryption
- Support Modbus/TCP and UDP protocols
- Support DHCP network configuration
- Wide Operating Temperature Range
- Built-in Watchdog

Pin Assignment	Terminal	No.	Pin Assignment
+5V	01	14	AGND
CJC	02 •	15	CH 0+
CH 0-	03 •	16	CH 1+
CH 1-	04 •	17	CH 2+
CH 2-	05 •	18	CH 3+
CH 3-	06 •	19	CH 4+
CH 4-	07 •	20	CH 5+
CH 5-	08 •	20	CH 6+
CH 6-	09 •	22	CH 7+
CH 7-	10 •	22	CH 8+
CH 8-	11 •	23	CH 9+
CH 9-	12 •	25	N.C.
N.C.	13 •		
100000		Shield	F.G.



Wire Connection





Hardware Specifications

Analog Input		
Channels	10	
	Voltage : ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, ±10 V	
Input Type	Current : ±20 mA (External resistor is required)	
	Thermocouple : J, K, T, E, R, S, B, N, C	
Resolution	16 bit	
Accuracy	±0.1% FSR	
Sampling Rate	10 Hz (Total)	
Zero Drift	±20 μV/°C	
Span Drift	±25 ppm/°C	
Common Mode Rejection	86 dB Min.	
Normal Mode Rejection	100 dB	
Input Impedance	Voltage Input: >400 kΩ, Current Input: 125 Ω	
Intra-Module Isolation, Field-to-Logic	3000 VDC	
Overvoltage protection	240 Vrms	
Individual Channel Configuration	Yes	
Open Thermocouple Detection	Yes (Software programmable)	
Wi-Fi Interface		
Antenna	5 dBi (Omni-Directional)	
Output Power	8 dBm @ 11Mbps	
Receive Sensitivity	-83 dBm @ 11Mbps	
Standard Supported	IEEE 802.11b/g	
Wireless Mode	Infrastructure & Ad-hoc	
Encryption	WEP, WPA and WPA2	
Transmission Range	100 meters (LOS)	
Power		
Input Voltage Range	10V ~ 30V	
Power Consumption	2.2W	
Mechanism		
Installation	DIN-Rail	
Dimensions	110mm x 90mm x 33mm (H x W x D)	
Environment		
Operating Temperature	-25°C ~ +75°C	
Storage Temperature	-30°C ~ +80°C	
Humidity	10% ~ 90%	

Applications



Ordering Information

WF-2019/S CR

10-channel Universal Analog Input Wi-Fi I/O Module with DB-1820 Daughter Board (RoHS)