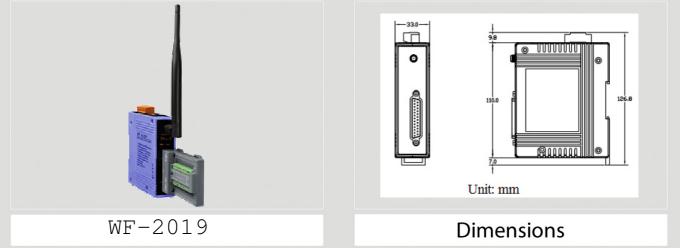
Wi-Fi Series Products

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

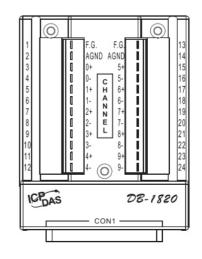


The WF-2019 is a 10-channel universal analog input module with voltage and current input types. It provides extremely accurate thermocouple measurement and automatically cold-junction compensation for each channel. In addition, the WF-2019 has WLAN connection complies with the IEEE802.11b/g standards. 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.

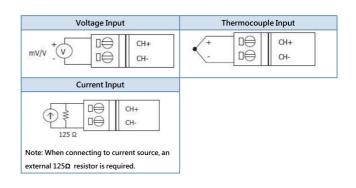
Features

- 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 | | | |
|-------------------|----------|--------|-----------------------|
| 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 5+ |
| CH 6- | 09 | • 22 | CH 0+ CH 7+ |
| CH 7- | 10 | • 23 | CH 7+ CH 8+ |
| CH 8- | 11 | • 23 | CH 8+ CH 9+ |
| CH 9- | 12 | • | |
| N.C. | 13 | 25 | N.C. |
| | - | Shield | F.G. |
| | | | n Female Connector |



Wire Connection





i-Fi Serie

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 k Ω , 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 | 50 meters (LOS) | | |
| Power | | | |
| Input Voltage Range | 10V ~ 30V | | |
| Power Consumption | 2.2W | | |
| Mechanism | | | |
| Installation | DIN-Rail | | |
| Dimensions | 33mm x 95mm x 120mm (W x L x H) | | |
| Environment | | | |
| Operating Temperature | -25℃ ~ +75℃ | | |
| 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)