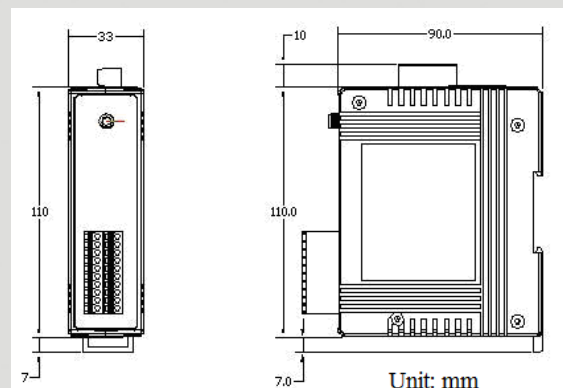




## Wi-Fi Data Acquisition I/O Module (16 DO)



WF-2042



Dimensions

The WF-2042 is a 16-channel isolated digital output module and it is one of the members of the WF-2000 wireless product family. In addition, the WF-2042 has WLAN connection complies with the IEEE802.11b/g standards. With the popularity of 802.11 network infrastructure, the WF-2042 makes an easy way to incorporate wireless connectivity into monitoring and control systems. The WF-2042 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 output
- Compatible with IEEE 802.11b/g standards
- Support Infrastructure and Ad hoc modes
- Support WEP, WPA and WPA2 wireless encryption
- Support Modbus/TCP and UDP protocols
- Support DHCP network configuration
- Support DO power on value & safe value mechanism
- Built-in Watchdog
- Wide Operating Temperature Range
- 4 kV ESD Protection

## Pin Assignment

| Pin Assignment Name | Terminal No. | Pin Assignment Name |
|---------------------|--------------|---------------------|
| EXT.GND             | 20           | 19 EXT.GND          |
| DO8                 | 18           | 17 DO0              |
| DO9                 | 16           | 15 DO1              |
| DO10                | 14           | 13 DO2              |
| DO11                | 12           | 11 DO3              |
| DO12                | 10           | 9 DO4               |
| DO13                | 8            | 7 DO5               |
| DO14                | 6            | 5 DO6               |
| DO15                | 4            | 3 DO7               |
| EXT.PWR             | 2            | 1 EXT.PWR           |

## Wire Connection

## 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 control
- Provide Auto-Search device function
- Provide I/O monitor screen
- Provide parameter storage interface
- Provide encryption configuration for wireless LAN

| Output Type     | ON State LED ON | OFF State LED OFF |
|-----------------|-----------------|-------------------|
|                 | Relay ON        | Relay OFF         |
| Drive Relay     |                 |                   |
| Resistance Load |                 |                   |



## Hardware Specifications

| Digital Output                         |                                  |
|----------------------------------------|----------------------------------|
| Channels                               | 16, Sink(NPN)                    |
| Output Voltage                         | +3.5 ~ +50 V                     |
| Output Current                         | 700mA per channel                |
| Intra-module Isolation, Field to Logic | 3750 VDC                         |
| Overvoltage Protection                 | 60 VDC                           |
| 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                      | 1.5W                             |
| Mechanism                              |                                  |
| Installation                           | DIN-Rail                         |
| Dimensions                             | 33mm x 106mm x 120mm (W x L x H) |
| Environment                            |                                  |
| Operating Temperature                  | -25°C ~ +75°C                    |
| Storage Temperature                    | -30°C ~ +80°C                    |
| Humidity                               | 10% ~ 90%                        |

## Applications



## Ordering Information

**WF-2042 CR**

Wi-Fi I/O Module with 16-channel Isolated Digital Output (RoHS)