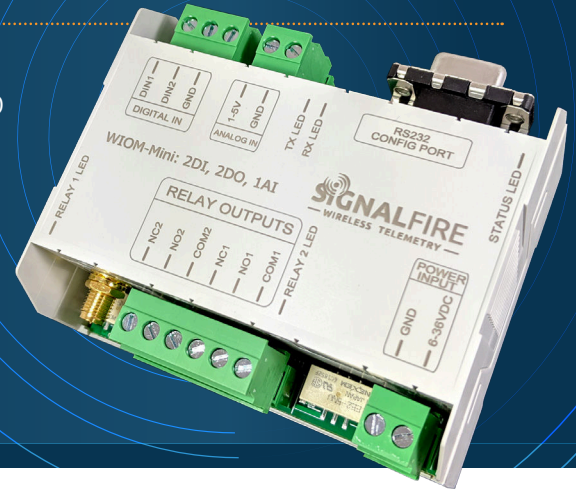


# MINI WIRELESS I/O MODULE

DIN Mounted Module for Wireless Network

- INPUTS / OUTPUTS MODULE WITH BUILT-IN 900MHZ RADIO
- WIRE REPLACEMENT FOR ANALOG AND DISCRETE SIGNALS
- PERFECT FOR CONTROL & SHUTDOWN APPLICATIONS
- 3-MILE RANGE WITH BUILT-IN WIRELESS MESH



## DESCRIPTION

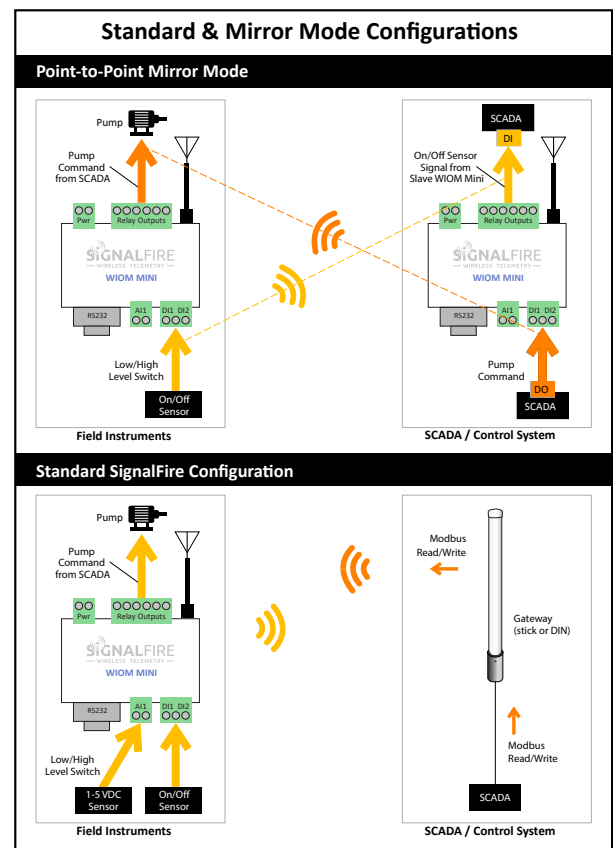
The MINI edition of the SignalFire Wireless I/O System is a cost effective module that reads, controls and transmits an analog 0-5V input and has programmable relay outputs. There are two modes of operation, the first utilizes two modules and acts as a wire replacement that replicates the digital signals over a wireless link between the pair of MINI Wireless I/O Modules. The second mode of operation is as a standard node that sends the I/O data (via the SignalFire wireless mesh network) to a SignalFire Gateway where the data is available via a Modbus-RTU or Modbus-TCP interface. The modules are DIN rail mounted and designed to be easy to use.

**Point to Point I/O Mirroring Configuration:** The digital inputs from one module are replicated on the other module (and vice versa).

**Standard SignalFire Configuration:** Operates as a remote node with a standard SignalFire Gateway. All I/O data is available at the Gateway as Modbus registers. Supports Modbus writes to control the relay outputs. SignalFire node in a SignalFire network, providing longer-range as well as more sophisticated monitoring and control.

## FEATURES

- One Analog Input (0-5VDC)
- Two Digital Inputs (dry contacts)
- Two Relay Outputs (2 SPDT)
- Acts as a repeater for other SignalFire wireless devices
- Wide Range DC Power Input (6-36VDC)
- Low Power Consumption
- DIN Rail Mount with pluggable screw terminal blocks
- Status LEDs



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## TECHNICAL SPECIFICATIONS

### Operating Temp

-40°C to 65°C, -40°F to 149°F

### Power

6-36VDC (25mA average @12V no relays energized, additional 15mA max for each energized relay plus any analog output)

### Inputs / Outputs

2 DI: Dry contact or 30VDC max (push-pull)  
1 AI: 0-5VDC  
2 DO: 2A@30VDC, 0.5A@125VAC

### Radio Frequency

902-928 MHz ISM band, FHSS radio

### Antenna Connection

RP-SMA

### Enclosure

Industrial ABS DIN Mount

### Approvals

Class I Div 2 Certified, Groups A, B, C, D, T5. Certified to CSA C22.2 No. 213, Conforms to UL 121201:2017  
ISM Band: FCC & Industry Canada (IC)

### Wired Termination

18 AWG

### Radio Power

500 mW

### Range

Up to 3 miles line of sight (depending on antenna)

### Weight

0.22 kg, 0.5 lb

## STANDARD CONFIGURATION ORDER CODES

| DESCRIPTION  | ORDER CODE                       |
|--|----------------------------------|
| Wireless MINI I/O, Whip Antenna  | WIOM-MINI-IOMIX1-WHIP            |
| Wireless MINI I/O, External Panel Mounted Antenna                          | WIOM-MINI-IOMIX1-EXT             |
| Wireless MINI I/O, Remote mount antenna, 20ft RG58 cable, RP-SMA connector | WIOM-MINI-IOMIX1-ANT-WP-RPSMA-20 |
| Wireless MINI I/O, Remote mount antenna, 20ft RG58 cable, N-Male connector | WIOM-MINI-IOMIX1-ANT-ANT-N-20    |
| Wireless MINI I/O, Remote mount antenna, 30ft RG58 cable, RP-SMA connector | WIOM-MINI-IOMIX1-ANT-WP-RPSMA-30 |
| Wireless MINI I/O, Remote mount antenna, 30ft RG58 cable, N-Male connector | WIOM-MINI-IOMIX1-ANT-WP-N-30     |

