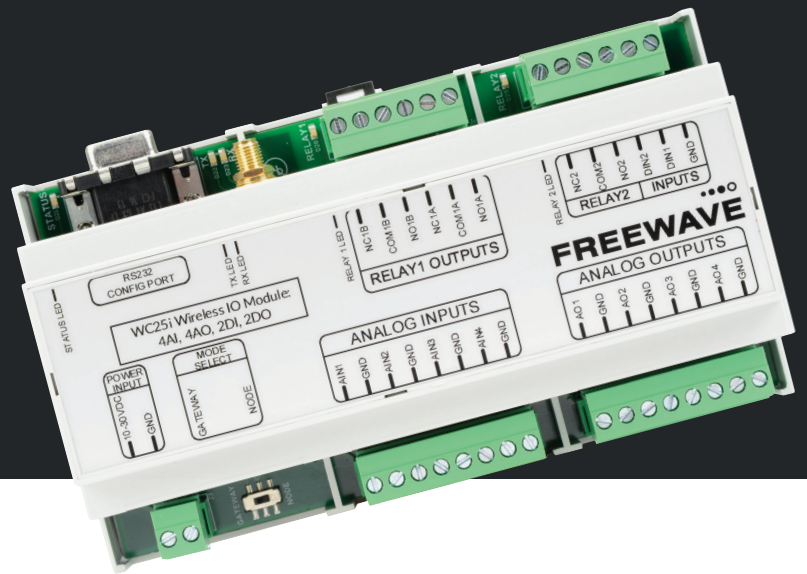


WaveContact Series

WC25i Wireless IO Module



Rugged, Simple, Flexible

The WC25i Wireless IO Module integrates multiple points of mixed IO into a WaveContact network using a single piece of equipment. The WC25i is used in wire replacement or standard endpoint modes. The modules are rugged, DIN rail mounted, and designed for ease of use.

Together with the WC45i Gateway, WC20i Modular Endpoints and other WaveContact nodes can be combined to form a wireless IO network that is typically quicker to deploy, less expensive, and more reliable than wired installations.

Wire Replacement Mode

The wire replacement mode of operation replicates analog and digital signals across the wireless link between a pair of Wireless IO Modules. It is ideal for standalone valve control and simple retrofit applications.

Standard Endpoint Mode

The WC25i operates as an endpoint in a WaveContact system and sends the data (via the WaveContact wireless mesh network) to a WC45i Gateway where the data is available via a Modbus RTU or Modbus-TCP interface. It supports Modbus writes to control the analog and relay outputs.

Key Features

- 4 Analog Inputs (0 to 20 mA or 0 to 5 V)
- 4 Analog Outputs (0 to 20 mA or 0 to 5 V)
- 2 Digital Inputs
- 2 Relay Outputs (1 DPDT, 1 SPST)
- Acts as a repeater for other WaveContact wireless devices
- Wide Range DC Power Input (10 to 30 VDC)
- Low Power Consumption
- DIN Rail Mount with pluggable screw terminal blocks
- Status LEDs
- Class I, Division 2

Transmitter	
Frequency Range	902 to 928 MHz, FHSS, license-free ISM band, Compliant with FCC Part 15
Range	Up to 4.8 km (3 miles) with proper antenna and clear line of sight
Over-the-Air Rate	10 kbps
Radio Transmit Power	300 mW

Interfaces	
Antenna Connector	RP-SMA
Digital Inputs	Dry contact or 30 Volts max (push-pull)
Analog Outputs	0 to 20 mA, 0 to 5 Volts
Relay Outputs	2 A, 60 W

Power Requirements	
Input Voltage	10 to 30 VDC
Current Consumption	@ 12 VDC input: Base current: 25 mA Relay Current: 15 mA per energized relay Analog Output Current: up to 20 mA per output Maximum: 135 mA

General Information	
Operating Temperature	-40°C to +65°C (-40°F to +149°F)
Humidity	0 to 100%, non-condensing
Dimensions	158.75 L x 89 W x 57.15 H (mm) 6.25 L x 3.5 W x 2.25 H (in)
Weight	WL-W: 390 g (0.86 lbs) WL-PM: 455 g (1.0 lbs)
Safety	Class I, Division 2, Groups C&D, Temp Code T5, Conforms to ISA 12.12.01, Certified to CSA Std C22.2 No. 213

Information to Order		
Model Number	Description	Includes
WC25i-WL-PM	Wireless IO system with an externally-mounted omni-directional antenna	WC-ANT-PM
WC25i-WL-W	Wireless IO system with direct-mount whip antenna	WC-ANT-WHIP

Accessories	
WC-USB-DB9	USB to Serial Interface Cable DB9
WC-ANT-WHIP	Whip antenna for use in fiberglass or plastic enclosure with direct mount to a DIN mounted card
WC-ANT-PM	Panel mount antenna to mount outside an enclosure

Related Products
WC45i Gateway
WC20i Modular Endpoints
WC30i Wireless Sensors
WC40i Modbus, Multi-IO, and Remote Shutdown nodes