

Just received your FreeWave® ZumEdge® ZU1100 Wire Replacement?

Start Here!

Wireless I/O communication is applicable in multiple industries including oil and gas, waste water management, irrigation, utilities and any application where ANALOG and DIGITAL I/O must be extended and a wired connection is not feasible.

Example: Use wireless I/O communication to monitor multi-well pad sites and underground storage capacity, control plunger lift, control lift stations and water quality, or report on groundwater use.

- A cost effective, accurate, and reliable solution for application monitoring and control needs.
- An alternative in situations where running wires is costly or not possible.
- An alternative in situations where existing wiring has been damaged and the wire fault cannot be found or is costly to trench and install new wiring.

The ZumEdge ZU1100 Wire Replacement is a plug and play solution. The I/O mapping and wireless parameters are fixed.

If you require I/O mapping adjustments or changes please contact FreeWave Support, support@freewave.com.



FREEWAVE

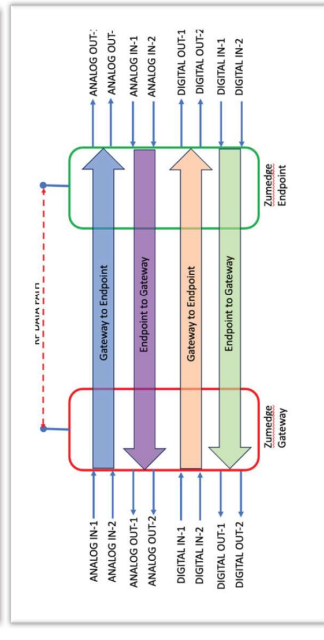
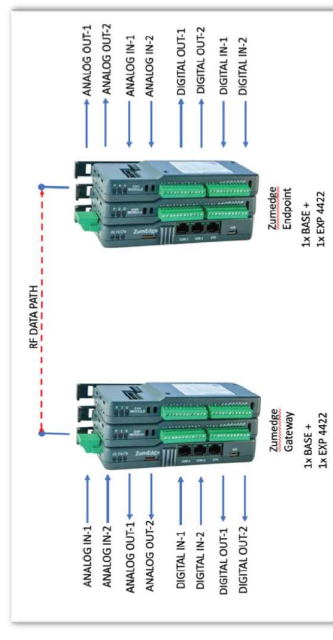
The ZumEdge ZU1100 wire-replacement is a I/O Bi-Directional I/O-to-I/O product. The solution consists to two separate ends, one labeled GATEWAY and the other labeled ENDPOINT. Both ends contain the same number and type of I/O, i.e.; GATEWAY side has 2 x Analog inputs, 2 x Analog outputs, 2 x Digital inputs and 2 x Outputs.

The 2 x Analog inputs from the ENDPOINT are mapped into the 2 x Analog outputs to the GATEWAY

The 2 x Analog inputs from the GATEWAY are mapped into the 2 x Analog outputs to the ENDPOINT

The 2 x Digital inputs from the ENDPOINT are mapped into the 2 x DIGITAL outputs to the GATEWAY

The 2 x Digital inputs from the GATEWAY are mapped into the 2 x Digital outputs to the ENDPOINT



1. Remove ZU1100 G GATEWAY and ZU1100E ENDPOINT devices from shipping box
2. Connect antenna to GATEWAY and ENDPOINT
3. Apply power to GATEWAY and ENDPOINT
4. Allow approximately two minutes for your devices to boot and begin to communicate. The LED patterns on the GATEWAY and ENDPOINT should be; CD = GREEN.
5. The "I" LED indicator on the I/O modules for the GATEWAY and ENDPOINT will flash when I/O is being sent and received.
6. Your system is now ready for you to connect I/O to your solutions.

IMPORTANT! DO NOT MAKE any modifications to this device. If you require I/O mapping adjustments or changes please contact FreeWave Support support@freewave.com.

RF GATEWAY IP:	192.168.1.150
RF ENDPOINT IP:	192.168.1.45
SUBNET:	255.255.255.0
IP GATEWAY:	192.168.1.1
RADIO RF POWER:	30db (1Watt)
RF NETWORK ID:	17499
RF NODE ID GATEWAY:	50
RF NODE ID ENDPOINT:	45
RF DATA SPEED:	115.2k
I/O UPDATE RATE:	1/sec

GATEWAY IN
 4 - 20mA
 0 - 2.5 = Logic "0"
 3.0 - PWS VDC Non-Isolated = Logic "2"

ENDPOINT OUT
 4 - 20mA
 Isolated N.O. Switch Output

ENDPOINT IN
 4 - 20mA
 0 - 2.5 = Logic "0"
 3.0 - PWS VDC Non-Isolated = Logic "2"

4 - 20mA
 Isolated N.O. Switch Output

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