## **ZUMEDGE**® **ZU1100 Wire Replacement**

rEdge ZU' elim ..... The FreeWave ZumEdge ZU1100 is a powerful wire replacement solution that leverages cutting-edge wireless technology to eliminate the constraints of traditional wired I/O systems. Designed for industrialgrade reliability, it seamlessly replaces wired connections, reducing installation and maintenance costs while enhancing operational flexibility. With robust security, long-range connectivity, and remote management capabilities, the ZumEdge ZU1100 is the ultimate choice for modern IIoT deployments, ensuring seamless, secure, and efficient industrial automation.

#### **KEY FEATURES**

#### > Wire Replacement

Provides an alternative in situations where running wires is not feasible

> Bi-directional Analog and Digital I/O Allows bi-directional monitorina, command and control

#### > True Plug-and-Play Pre-configured I/O mapping is fixed,

reducing installation and set-up time

#### > Rugged, Functional Solution

Applicable in a variety of industries where Analog and Digital I/O must be extended and a wired solution is not feasible

Say goodbye to the limitations of wires and hello to a smarter, more connected future with ZumEdge ZU1100.

#### **DITCH THE WIRES, STAY CONNECTED - SEAMLESSLY**

Traditional wired I/O connections are costly, cumbersome, and prone to failure—slowing down operations and limiting scalability. The FreeWave ZumEdge ZU1100 is the ultimate wire replacement solution, delivering real-time, bi-directional data transfer without the hassle of hard-wired infrastructure.

FREEWA

000000000000

ZumEdge

ZumEdge

0000000000000

1 \* 8 \* 9\* 98 18 18 18 18 18 18 18

00000000000

-----

Powered by an intelligent 900 MHz wireless platform with edge computing and stackable I/O, the ZumEdge ZU1100 ensures cost-effective, reliable, and scalable industrial connectivity. Whether you're monitoring remote assets or optimizing automation, this solution keeps your data flowing—without the limitations of wires.

Why Choose the ZumEdge ZU1100?

- Effortless Wireless Integration Replace wired I/O with seamless, highprecision analog and digital signal transfer.
- Remote Monitoring & Control Manage applications from anywhere, reducing operational complexity.
- Significant Cost Savings Eliminate expensive wiring, installation, and maintenance costs.
- Easily Scalable Tailor your network to meet specific operational needs.
- Optimized Efficiency Improve productivity with real-time monitoring and automation.

#### **Built for Industrial Demands**

From oil & gas, water management, and irrigation to utilities and remote operations, the ZumEdge ZU1100 is designed for critical applications. Monitor multi-well pad sites, underground storage, lift stations, and groundwater usage—all while enjoying secure, reliable wireless performance.



# FREEWAVE ZUMEDGE ZU1100 **TECHNICAL SPECIFICATIONS**

#### TRANSMITTER

**Frequency Range Output Power** Range **RF Data Rates** 

Analog Inputs

Analog Outputs

Digital Inputs

Power Supply

**Digital Outputs** 

1/0

902 to 928 MHz Fixed at 1W 97 km (60 miles) with clear line of sight 115.2 kbps fixed

0 to 2.5 = Logic 0, 3.0 to PWC VDS = Logic 1

Isolated N.O. Switch Output

Operating Voltage +6 to +30 VDC

Current Consumption Voltage Transmit Receive Idle 12 VDC 377mA 159 mA 143 mA

4-20mA

4-20mA

### **INTERFACES**

**Data Connectors** Four Rj-45 (2 Ethernet, 2 Serial) **USB Connector**s Micro USB (used for configuration only) **RF** Connector TNC **Power Connectors** Phoenix Contract (#1776692)

### POWER REQUIREMENTS

Operating Voltage	+6 to +30	VDC		
Current Consumption	Voltage	Transmit	Receive	Idle
	12 VDC	377 mA	159 mA	143 mA

#### **GENERAL INFORMATION**

Operating Temperature	<b>-40</b> to +75 C		
Humidity	0 to 95% non-condensing		
Dimensions	165.28 L × 153.96 W × 27.55 H (r		
	6.51 L × 6.06 W × 1.08 H (inches)		
Weight	500C / 1.0lbs		
Reliability	MTBF 206.186		
Safety	Class 1, Division 2, Groups A-D		
UL			

#### UL C 74 US

**ORDERING INFORMATION** Model Number

ZU1100

## > ZU1100 Applications



OIL & GAS

UTILITIES

MUNICIPAL

**ENTERPRISE** 

### **CONTACT US**

5395 Pearl Parkway, Boulder, CO 80301 TF 866.923.6168 T 303.381.9200 For more information, visit www.freewave.com