



Introducing The New FreeWave ZumEdge



ZumEdge encapsulates all of the features of ZumLink 900MHz devices, plus:

- **Cost Savings:** With native direct analog and digital IO connections, there's no need for additional devices.
- **Reduce Complexity:** Our web-based I/O configuration tool is designed for remote configuration by non-technical/low-technical individuals and allows for easy sensor adds
- **Scalable:** While most other solutions are not expandable, ZumEdge can support up to 15 IOEX modules allowing up to 180 IO points
- **Optimized:** We solve the problem of multi-protocol software sensor interaction with REST API, a well-known web service, allowing easy configuration and polling of I/Os and remote sensors
- **Simplicity:** The FreeWave IQ application environment comes standard with every ZumEdge, and there are no extra software fees for third party application integration
- **Investment Protection:** Over the air interoperability allows for existing Zumlink networks to quickly and easily add previously inaccessible IO's.

ZumEdge adds seamless IO integration and industrial intelligence at the Edge.

ZumEdge is the next evolution of FreeWave's Edge intelligence product line and features I/O connectivity, easy installation, and setup. Customers can access the data they need and make decisions on the edge in the harshest environments - in minutes - not hours - without requiring traditional SCADA connections.

Key Verticals:

- Wastewater
- Smart Ag
- Oil and Gas
- Utilities (Water, Energy)

What this means for our customers:

Without existing Ethernet or SCADA infrastructure, critical sensor data is often stranded in the field, waiting to be acted upon, creating inefficiencies, and by extension, cost.

ZumEdge with an I/O module makes it easy (and possible) to establish a direct sensor connection allowing customers to access and monitor their data in the field and make decisions based on that data quickly.

Our solution is ideal for any industry that requires sensor data capture and measurement in rugged, isolated, and potentially hazardous environments. ZumEdge allows the user networks smarter, faster, and more efficient, without adding infrastructure or modifying existing systems.

Your customers will love the new capabilities, and easy implementation offered by ZumEdge Here's why:



Easy Installation and Setup

Configuration tools and information are all self-contained on the ZumEdge itself. Configure new sensors, add endpoints and repeaters, or build entire networks quickly and intuitively.



Customizable Integrations

ZumEdge comes standard with the FreeWave application environment, so customers can create their own on-board smart applications, implement third-party applications such as Ignition and Autosol, and take advantage of future FreeWave applications to make decisions on the Edge.



Enhanced Security

ZumEdge can be totally autonomous from your existing network - ZumEdge networks do not require integration into existing SCADA networks, and can operate independently.



Over-the-Air Compatible

ZumEdge is over-the-air compatible with existing ZumLink networks.



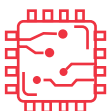
Increased Financial ROI

Time-saving plug and play solution that eliminates the need to roll trucks on-prem.



Exceptional Customer Support

First-class support from our global network of professional integrators



Hardware Continuity

Users can continue to use their existing ZumLink networks by adding ZumEdge where I/O sensor connectivity is required by having the updated IQ 1.2 firmware.



Improved Accessibility Features

ZumEdge has improved accessibility features with I/O options for Analog and Digital Sensors.



Easily Configure Applications

The ZumEdge software uses a REST API allowing customers to easily configure applications that control and read I/O over Ethernet using an API.

ZumEdge and Expansion Module Part Numbers

| | |
|---------------|---------------------------------|
| ZumEdge: | Z9-IO-PE-ZE |
| IO Expansions | IOEX-4440, IOEX-4422, IOEX-4404 |

Part Number Summary

| Expansion Module | IOEX-4440 | IOEX-4422 | IOEX-4404 |
|--|-----------|-----------|-----------|
| Number of Universal Channels | 4 | 4 | 4 |
| Number of Input-Only Channels | 4 | 4 | 4 |
| Number of Isolated Digital Input Channels | 4 | 2 | 0 |
| Number of Isolated Digital Output Channels | 0 | 2 | 4 |

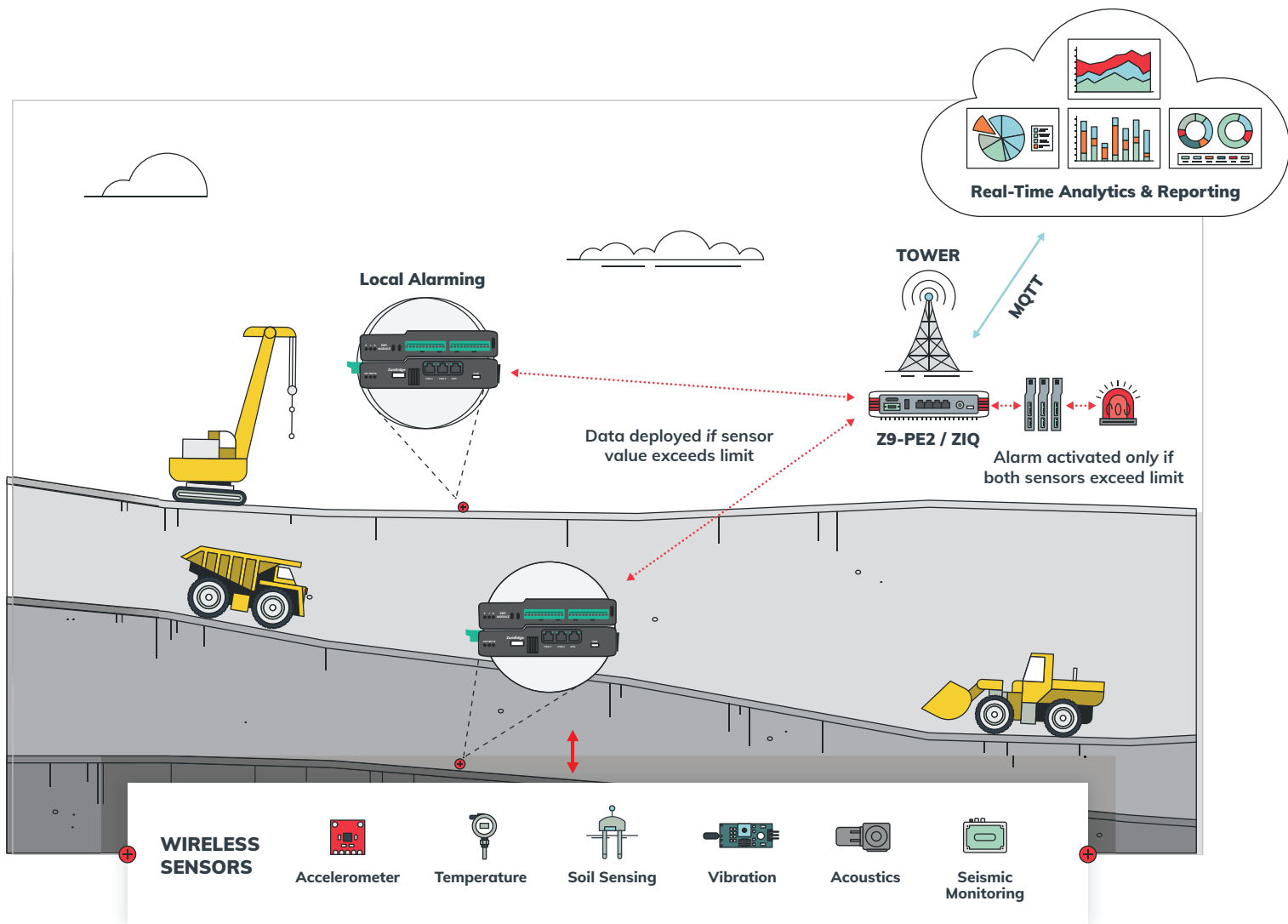
Gain a New Competitive Edge, Fast.

FreeWave delivers advanced wireless and edge computing capabilities in a small, lightweight package, making it easy for End Users, System Integrators and OEMs to transform their products into IIoT-enabled solutions rapidly

Ready to get started? Visit freewave.com today.

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Mining



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**Long Range
900MHz**