FREEWAVE EDGE

FreeWave Edge helps companies maximize IIoT resources and minimize hassle with a data platform that delivers

About FreeWave Edge:

FreeWave Edge is our new data platform that maximizes IIoT resources, minimizes hassle and delivers high-quality data and on-device edge polling no matter your connectivity challenges.

With FreeWave Edge, you can:

- **Do more with what you have** — Get on-device edge polling and data storage while keeping your existing network in place and freeing up bandwidth, all at a fraction of the cost and labor

- **Save yourself time and headaches** — The Edge platform does it all, connectivity and data processing, right out of the box, and it's easy to install, setup, and use without professional services or training.

- **Eliminate guesswork and increase productivity** — Receive all the information you need, without having to worry about connectivity gaps.

Challenges

FreeWave understands the need for an edge data processing platform to make life easier for Industrial Site Operations Managers, Network Operators, System Integrators, and Solution Providers alike.

Upgrading to FreeWave Edge lets companies exploit data and insights faster while gathering, monitoring, and processing information without relying on a distant data center infrastructure.

With support for industrial protocols like Modbus, ROC, and more coming soon, as well as reporting via MQTT to whatever enterprise reporting system or cloud you prefer, FreeWave Edge delivers everything you'd want from a network at a fraction of the cost and labor.

Replacing networks is expensive, which is why FreeWave Edge integrates with the enterprise tool and cloud system you are already using and still get the quality and volume of data your operation needs.

By integrating with your existing sensors and data formations (whether in applications embedded in machines, handheld devices industrial devices in the field, or with sensors in remote buildings), FreeWave Edge allows customers to easily connect sensors and devices, customize alerts, and get guaranteed data delivery to their existing SCADA and cloud systems, giving them peace of mind about data collection.

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The FreeWave Solution

Network Operators:
You can now do more with what you have.

Forget the daunting investment of upgrading your infrastructure. FreeWave Edge doesn't just run on your radio network; it delivers more data while freeing up bandwidth to allow you to connect additional sites and endpoints.

- Get on-device edge polling and data storage for higher quality data collection and guaranteed data delivery, no matter your connectivity challenges.

- Add sites to existing networks with freed-up capacity

- Drop-in software upgrades extend the life of your radio network

- The FreeWave hardware can store a full week of high-resolution data if something in your system goes down

System Integrators & Solutions Providers:
Save Yourself Time and Headaches

There's no need to piece together multiple hardware and software components from different suppliers to get the results you need. The Edge platform does it all, right out of the box.

- Keep connectivity, compute, data collection and storage all in one box

- The platform is easy to install, set up, and use without cumbersome command line tools, professional services or training

Industrial Site Managers:
Increase Productivity. Decrease Guesswork.

Reliable data delivery means the days of having to drive far out into the field to check on systems are over.

- FreeWave Edge sends all the information you need to your existing enterprise, cloud or SCADA systems, wherever you are, removing the guesswork and the troubleshooting to let you focus your resources elsewhere, like doing more with your data.

- With edge data processing and on-device storage, you don't have to worry about gaps in connectivity.

- The Edge Platform delivers more data than other systems, providing additional data you need for business and operational productivity and analytics.

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Solution Profile

FreeWave Solution Results

- A site manager overseeing an irrigation system was receiving hourly over-the-air data polling. Something on-site went wrong shortly after a poll, and he was unaware of the issue for almost another hour. With FreeWave Edge, the site manager could have installed sensors on his Zum hardware locally to provide down-to-the-second data processing, ensuring he can address future issues in real-time. With FreeWave Edge store & forward, he can store data every second and have it bundled and forwarded efficiently over the air every hour, and have alerts set for the most critical values in his operation.

- A utility customer lost data and productivity because of connectivity issues and was facing fines for gaps in their data reporting. FreeWave Edge offered store and forward features; it will continue to poll data even with a connection issue. With the connection restored, FreeWave Edge sends polling data over-the-air in an efficient, condensed format making connection issues a temporary hiccup instead of a bottom-line impacting disaster.

- An oil & gas field technician needed to install a system to retrieve data from RTUs, PLCs, and Flow Computers but was struggling with multiple setup tools and over-the air-polling. FreeWave Edge simplified installation by providing IO sensors and industrial protocol polling in a single device along with industrial radio connectivity. They also set it all up with an easy-to-use, on-device web interface so they could ensure it's working properly.

- An OEM and App developer was running into issues collecting data from industrial equipment to feed their main product – a cloud dashboard with AI & ML business analytics. FreeWave Edge provided connectivity and industrial protocol data collection so OEM developers could acquire data while remaining focused on their core product development effort. FreeWave Edge also provided compatibility via MQTT with common cloud and IoT systems like AWS, Azure, IBM Watson, and Thingsboard.

- State regulations require a producer to pull and report RTU data more frequently, putting more load on an already taxed 900MHz radio network. By leveraging high-speed edge polling and a "report by exception" data platform, FreeWave Edge was able to both significantly free up the producer's bandwidth and allow them to collect, process and report their data at a higher frequency on the same 900MHz radio network. FreeWave Edge also made it easy to publish data directly to their SCADA system so they could continue to use their existing enterprise tools.