SOLUTION OVERVIEW

Securing a Connected Industrial World
with Elements™ ES1000 and Zentry™ zero-trust protection

FREEWAVE

Your operations, whether sprawling oil fields, remote farms, renewable energy sites, or water management facilities face relentless risks. Cyberattacks target vulnerable assets, fragmented connectivity disrupts control, and downtime threatens your bottom line. Traditional solutions aren't keeping up: whether slow performance with latency and failure if breached, or a lack security strength and flexibility for today's dynamic networks. Field teams struggle with unreliable tools, technical managers grapple with complexity, and executives face mounting pressure to protect and scale. In oil & gas, agriculture, energy, and utilities, you need a solution that works for everyone from the site to the C-suite.

Meet the ES1000 powered by Zentry zero trust secure connectivity

The ES1000 is not just another cellular gateway. It is a cellular gateway that delivers secure, seamless connectivity for your critical assets. Secured by design with zero trust and scalable reach with one global SIM network, it outshines other solutions, offering rugged reliability, simplified deployment, and enterprise-grade protection tailored to your toughest challenges.

Why It Works: Addressing Your Challenges

Your Challenge	FreeWave's Answer
Cybersecurity risks	Zero Trust locks down every connection, meeting NIST/CISA standards.
Fragmented connectivity	One global SIM unifies your network, anywhere.
Data exposure	Encrypted transmission secures edge-to-cloud data.
Downtime costs	Reliable cellular keeps control real-time, cutting disruptions.
Deployment complexity	Single appliance simplifies setup and management for all levels.

Real-World Impact: The FreeWave Difference

- **Modern Compute Application Ready.** NPU powered in a Linux environment with Docker container support to easily support business applications and the intelligence to process data on the edge.
- **Increased Productivity.** Keeps field sites humming and enterprise goals on track.
- **Easily Implemented Plug-N-Play.** Gets crews, IT, and leaders up and running quicker than traditional setups.
- **Global Reach, Local Control.** One SIM connects assets worldwide, empowering site-level action and C-suite oversight.
- **Proven Security.** Blocks 100% of unauthorized access for peace of mind from field to boardroom.
- **Three Decades of Remote Network Success.** Designed, tested and manufactured in the United States with the FreeWave trust and reliability that networks have relied on for more than three decades.

KEY FEATURES

Zentry zero trust protection
> Continuous authentication and end-to-end encryption lock down every connection through micro-segmentation and management through the Zentry console making it simple to connect and disconnect when needed.
> Granular access controls safeguard data, giving field crews, IT, and leaders confidence in every link.
> Micro-segmentation reduces potential attack surfaces and isolates any potential threat from moving laterally throughout your enterprise systems.

Global SIM Connectivity
> One SIM network ensures reliable coverage across rural sites, urban grids, or global operations. No carrier chaos, just fast, scalable access that beats multi-carrier options.
> Supports fixed assets (e.g., wells, substations) and mobile units (e.g., tractors, utility trucks).

Rugged Reliability
> Built with FreeWave trust and built for harsh conditions – dust, heat, vibration –it keeps operations online backed by three decades of purpose-built design.
> Real-time control minimizes downtime, critical for field uptime and enterprise goals.

Simplified Deployment
> All-in-one design cuts complexity, delivering security and connectivity without the multi-tool mess making it easy for field teams, efficient for IT, and cost-effective for leadership.
> Quick setup gets you running fast, no disruptions.

Data-centric Decision Support
> Your network data is accessible on a permissions-based, robust data portal that provides customizable alerts, alarms and visualization so that decisions can be made in real-time.
> Permission asset access in real time provides network and asset security from anywhere you need.

Modern Compute Application Ready
> NPU powered in a Linux environment with Docker container support.
> Easily deploy your business applications and intelligence to process data on the edge with modern software solution.

TAKE THE NEXT STEP
Ditch the vulnerabilities of traditional solutions. FreeWave ES1000 frees you with field reliability to enterprise resilience.

INDUSTRY APPLICATIONS & BENEFITS

Oil & Gas and Production
Secure wells, mines and rigs with real-time data flow. Field crews stay online, IT stays protected, and execs stay compliant.

Agriculture
Connect smart farms across rural expanses. Simple for OEMs, secure for managers, scalable for growth.

Energy
Link electrical assets remotely. Reliable for sites, robust for IT, strategic for leadership.

Utilities and Enterprise
Strengthen critical assets and mobile crews. Uptime for the field, security for tech teams, value for the C-suite.