Fusion Satellite provides global connectivity with Edge capabilities to operations with large numbers of remote, mobile, or hard-to-connect assets.

In today's Internet of Things (IoT or IIOT) systems it is often a challenge to connect to critical assets. The assets are too remote, the cost to connect these assets is too high, or the connection requires communication protocols that make it difficult to connect to third-party IoT equipment needed to fully connect operational systems. Until now.

The Fusion Satellite Gateway, from FreeWave Technologies, is a satellite IoT solution designed to connect industry equipment in any environment, even in the remotest areas. This makes it perfect for operations that have remote or mobile equipment and a need to report location, status, or sensor readings on a regular basis.

Key Features of the Fusion Satellite Gateway

GPS enabled – makes it well-suited for asset tracking applications. It's also much more than a simple GPS tracking device. It creates a two-way communication link, allowing for applications that must receive as well as send, permitting command and control of even very remote assets.

Utilizes FreeWave Edge™, the on-device data management software with the most-needed protocol converters – makes it a drop-in solution to connect existing industrial automation (i.e. SCADA) equipment via satellite.

Data management and cloud storage utilities – make it easy for customers to bring their data into their unique operational systems for dashboards and visualizations tailor-made for their application.

Full REST API on-board and a Linux-based runtime environment – making it easy to create and configure custom applications.

On device configuration and diagnostic tools – making it easy to set-up and run regular diagnostics.

The future of cost-effective solutions is here, today, with the FreeWave Fusion Satellite Gateway.

Contact FreeWave today to find out how Fusion Satellite can bring connectivity power to systems and operations in your business.

FREEWAVE

SYSTEM SPECIFICATIONS

Processor	NXP i.MX6 Solo
Storage	16GB
Memory	1GB DDR3
Operating System	Debian Linux (Runtime Environment Included)
Connectors	Ethernet (RJ45), Serial, (RJ45), 2xUSB (Type A), USB (Type C)
Operating Voltage	6-30VDC
Hardware Features	Real-time Clock
Breakout Connections	UART, SPI, I2C, GPIO
Form Factor	6.5"x2.8" (DIN Mount Plate Optional)
Temperature	-40 to 85C

Current Consumption

Voltage	Transmit/Receive	Idle
12VDC	465mA	144mA

Regulatory	C1D2 Groups A-D, FCC, UL
Max Current Draw	1.3A (Non-Continuous)
Antennas	GPS, Satellite
Antenna Connectors	SMA Female
Radio Topology	Endpoint Only

SATELLITE RADIO

Bit Rate	1kbps
Frequency	Downlink: 137-138 MHz Uplink: 148-150 MHz
Coverage	Global

DATA PLAN

Messages	750/Month
Message Size	192 Bytes
Data Plan Term	One Year from First Message
Cloud Storage	One Year from Purchase
Billing	Annual Auto-Renew