OneRain
The Rainfall Company

StormLink® Real-time Satellite Telemetry

Solutions for Remote Hydrologic Monitoring and Flood Early Warning Systems

SYSTEM FEATURES

- Low cost data in real time.
- Low power consumption allows for solar-based options.
- Rugged and compact product designed to operate for months without the need for maintenance.
- Reliable, stable and secure global network.
- Complete turnkey solution from OneRain, including airtime services. real-time data collection, processing.
- 24/7 access and management on the Internet via OneRain's Contrail® software suite.
- Two-way communication offers enhanced remote controls

Reliable and Accessible Real-time Data

A significant challenge for managers of real-time environmental and hydrologic monitoring networks is the reliable extraction of critical information from remote sites. To meet this challenge, OneRain developed the StormLink family of real-time satellite telemetry data products.

OneRain's StormLink Satellite telemetry solution enables the real time monitoring, management and control of remote sensing sites with coverage throughout the U.S. and around the world. Whether it's monitoring reservoirs or high risk dams in extremely remote areas, or post-wildfire burn areas, Onerain provides full turnkey solutions that provide automated data collection, dissemination, alarming and triggered events notifications.

StormLink Satellite is a cost effective alternative to line-of-sight (LOS) radio (RF) data delivery, reducing traffic in crowded RF environments and sometimes eliminating costly LOS repeaters. StormLink Satellite can be set up as a standalone sensing site with off-the shelf instrumentation.

Dependable Secure Satellite Network for Remote and Harsh Environments

The StormLink® Satellite transceiver module uses the L-band for communication and is thus **not prone to rain fade** during the very time when you need your data the most.

Data transmission is via the Inmarsat I4 satellite network service, a robust, secure and stable network. Messages are packetized and time-stamped prior to satellite transmission. The communications channel is two-way; data are buffered locally for possible retransmission until acknowledgment of correct receipt has been received. And no FCC licensing required!

Mission-critical Data Available Within Seconds of Transmission

Within an average 20-30 seconds from the time of transmission, hydrometeorological gauge data are processed, validated and archived into OneRain's Contrail® software platform for web-based dissemination, visualization, monitoring and alerting.

Two-Way Communication and Control

Key to the StormLink Satellite telemetry solution is its two-way communication and control capabilities. Through Contrail software, station parameters can easily be manipulated remotely, enabling users to turn sensors on or off, change transmission time or event criteria, etc. Advanced functionality includes the ability to remotely turn on flashers or sirens with the click of a button in Contrail.

OneRain's StormLink® Satellite Telemetry installed in the Cochiti fire burn area in northern New Mexico. Real-time data are transmitted to OneRain's secure data storage center for web-based viewing, and 24/7 monitoring via Contrail®

APPLICATIONS

- Flood early warning
- Reservoir and hydropower operations
- High risk/remote Dams Safety Monitoring programs
- Control of road flashers or sirens
- Post-wildfire burn areas for flood early warning
- Oil, gas, mineral and mining industries for automated remote sensor data collection, monitoring and alarm notifications
- Other environmental, weather, hydrological and water management areas

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T: +1 303 774-2033
Toll Free: 1 800 758-RAIN (7246)
Email: sales@onerain.com
www.onerain.com

Experts measuring rainfall and its consequences™