

Reachback™ Inverse Multiplexing Device



As a major provider of Iridium satellite services and support to U.S. and foreign governments, General Dynamics C4 Systems has developed the Reachback inverse multiplexing device for commercial and government users. The General Dynamics Reachback unit leverages the existing Iridium satellite network and enhances its functionality by incorporating four channels to provide increased bandwidth for remote or mobile transmission of data and voice.

The Reachback unit addresses bandwidth limitations inherent to the Iridium system (a single Iridium channel can only support 2.4 kbps) by simultaneously combining a number of low-rate Iridium channels to form an effective higher-rate channel with a bandwidth of 9.6 kbps.

Features

- Multi-channel Iridium® communications for inbound or outbound voice, data, and video
- Low power, portable device
- Pentium-based computer with Windows 2000 and Linux operating systems pre-loaded
- Automated data transfer from Mobile or Remote locations via custom applications
- A Local Area Network (LAN) bridge between two remote networks with networking configuration
- A router that provides routing and Network Address Translation (NAT) functions
- Chat/file transfer

Add-on Features

- Real-time video transmission capability with sophisticated video compression algorithm
- Near-real-time transmission of digital imagery using sophisticated Automatic Target Recognition (ATR) and user-defined region-of-interest-based compression algorithms
- Custom packaging and applications

Reachback Inverse Multiplexer

Specifications

Dimensions: 19" rack mountable (1U); 17"W x 16"L x 1.75"H

Weight: 12.9 lbs

Temperature: 0°C - 60°C in operation; -40°C - 70°C in storage

Humidity: 85% in operation; 95% in storage

Power: 100-240 VAC, 60Hz, 2.0A

Operating Frequencies (Transmit and Receive): 1616-1625.5 MHz

Link Margin (With Exterior Antenna): 12.5 db average

Vibration: 0.67Grms, 5-500Hz in operation

Data Channel Bandwidth: 9.6 kbps

External Connections

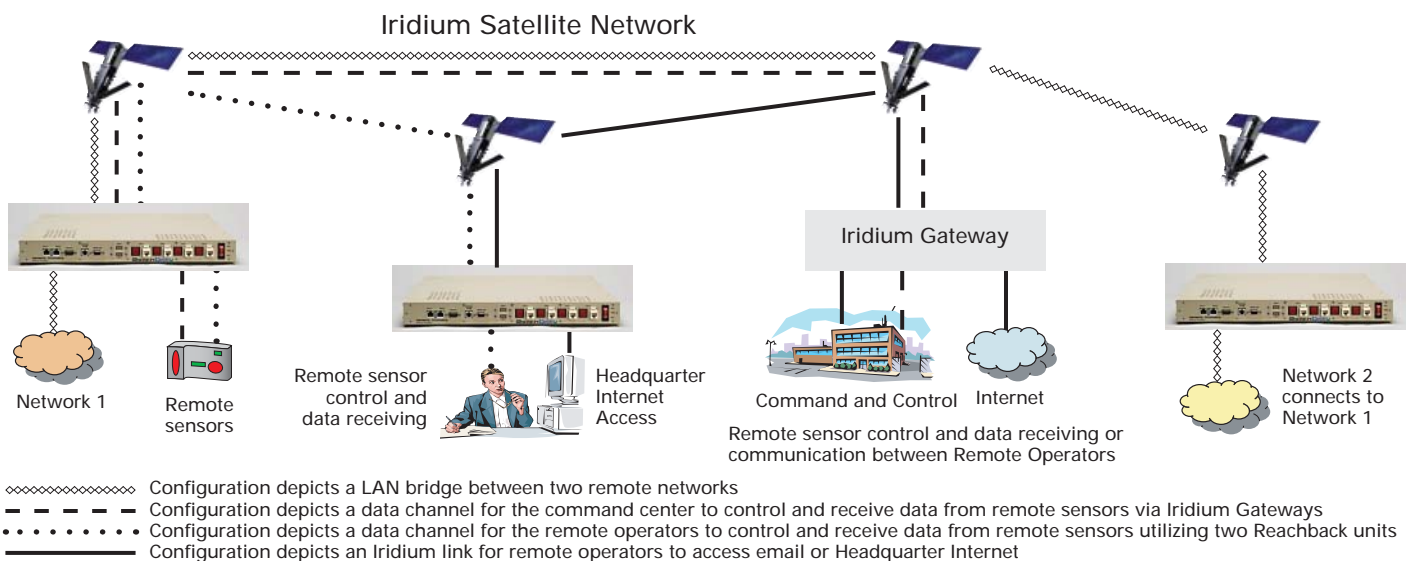
- Two (2) Ethernet
- One (1) serial port
- Two (2) USB
- One (1) y-cable for keyboard and mouse
- One (1) VGA monitor
- One (1) AC power
- Four (4) RJ-45 connectors for optional handset
- Four (4) Antenna Connector

Reachback Standard Package

- Reachback Unit
- Windows 2000
- Keyboard/Mouse cable
- Rack mounting hardware
- User manual
- Power cord
- Radmin for remote access
- Linux Solutions/GUI Software
- One (1) handset

Optional Accessories

- Antennas and accessories
- Sectéra® line of Type 1 encryption products
- Additional Handsets



GENERAL DYNAMICS

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