

Reachback™ Voyager

Multichannel Data and Voice Multiplexer

Features

- Multi-channel Iridium® communications for inbound or outbound voice, data, and video
- Low power, portable device
- Pentium-based computer with Windows® XP and Linux® operating systems pre-loaded
- Remote sensor control and data receiving
- Headquarter internet access
- A router that provides routing and Network Address Translation (NAT) functions
- Chat/file transfer
- PBX/PSTN interface
- 120 VAC, 12 VDC Input

Add-on Features

- Real-time video transmission capability with sophisticated video compression algorithm
- Near-real-time transmission of digital imagery with user-defined region-of-interest-based compression algorithms
- A Local Area Network (LAN) bridge between two remote networks with networking configuration
- Mobile-to-PSTN connectivity with 4-channel PSTN-based Reachback unit
- Custom packaging and applications
- Automated data transfer from mobile or remote locations via custom applications



General Dynamics' Reachback Voyager

As a major provider of Iridium satellite services and support to U.S. and allied governments, General Dynamics C4 Systems has developed the Reachback Voyager Multiplexer 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 Voyager unit combines a number of low-rate Iridium channels to form an effective, higher-rate channel with a bandwidth of 9.6kbps to simultaneously support data and RJ45 and RJ11 voice calls. The unit provides a DC power option, PBX connections and a radio-Iridium interoperability solution.

GENERAL DYNAMICS

Reachback Voyager Multiplexer

<i>Dimensions</i>	19" rack mountable (1U) 17"W x 16"L x 1.75"H
<i>Weight</i>	12.9 lbs
<i>Temperature</i>	0°C - 60°C in operation -20°C - 70°C in storage
<i>Humidity</i>	85% in operation 95% in storage
<i>Power</i>	100-240 VAC, 60Hz, 2.0A 12 VDC
<i>Operating Frequencies (Transmit and Receive)</i>	1616-1625.5 MHz
<i>Link Margin (With Exterior Antenna)</i>	12.5 db average
<i>Vibration</i>	0.67Grms, 5-500Hz in operation
<i>Data Channel Bandwidth</i>	9.6 kbps

Reachback Standard Package

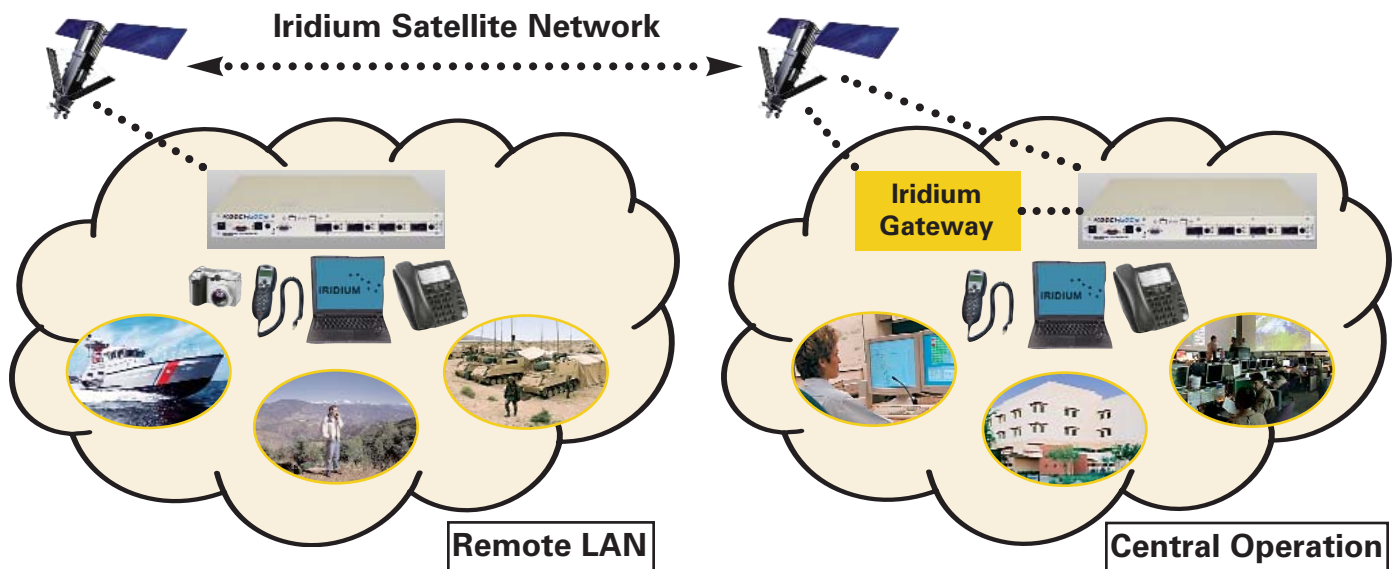
- Reachback Voyager Unit
- Windows XP Professional Edition
- Keyboard/Mouse cable
- Rack mounting hardware
- User manual
- Power cord
- Linux Solution/GUI Software

External Connections

- One (1) Ethernet, Two (2) USB
- One (1) serial port
- One (1) y-cable for keyboard and mouse
- One (1) VGA monitor
- One (1) AC power, One (1) DC power
- Four (4) RJ11, Four (4) RJ45
- Four (4) Antenna Connector

Optional Accessories

- Handset
- Antennas and accessories
- Sectera® line of encryption products



GENERAL DYNAMICS
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