Broadband Global Area Network (BGAN) High Data Rate (HDR)

Overview
Government mobile users require reliable, high-throughput satellite communications to support bandwidth-hungry applications globally:

- Intelligence, Surveillance and Reconnaissance (ISR)
- Voice over IP
- Video conferencing

Users demand high data-rate video streaming with terminal ease of use.
BGAN HDR overview

The next generation in L-band capability

Four-channel streaming rate with average speed of 600-700kbps, including symmetric and asymmetric options

Double the streaming rates to over 1Mbps by bonding two terminals together

Worldwide coverage

Delivered via the Inmarsat-4 network with 99.9% satellite and ground availability

Point-and-play easy-to-use terminals
BGAN HDR benefits

**High throughput**
- Increased throughput performance for a single mobile terminal

**Flexible**
- Full or half channels with symmetric and asymmetric options

**Worldwide**
- Point & play anywhere around the world

**Reliable**
- Trusted network from a single operator
Inmarsat-4 and Alphasat coverage
**BGAN HDR hardware**

**Cobham SATCOM EXPLORER 710**

- Compact, lightweight, easy to use
- Access both symmetric and asymmetric BGAN HDR services
- Built-in bonding capability of two 710 systems
- Multiple interfaces to support a wide range of application

**Features:**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Size (W x H x D)</td>
<td>11.0 x 13.1 x 2.0 inches</td>
</tr>
<tr>
<td>Weight:</td>
<td>7.7lb (incl. battery) Antenna: 4.2lb; Transceiver: 3.5lb</td>
</tr>
<tr>
<td>Standard IP:</td>
<td>Up to 492kbps (send &amp; receive)</td>
</tr>
<tr>
<td>Streaming IP:</td>
<td>Supports four channel streaming rates; full channel option average of 650kbps</td>
</tr>
<tr>
<td>ISDN:</td>
<td>64kbps via RJ-45</td>
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<tr>
<td>Voice:</td>
<td>Via RJ-11 or 3.1kHz audio</td>
</tr>
<tr>
<td>Data interfaces:</td>
<td>Ethernet, USB host interface, transceiver/antenna interface, BGAN SIM card slot, WLAN 802.11b, LAN</td>
</tr>
<tr>
<td>Ingress protection:</td>
<td>Transceiver: IP52 / Antenna: IP66</td>
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BGAN HDR hardware

Hughes 9211-HDR

- The world’s smallest and lightest HDR-capable BGAN
- Rugged terminal
- Asymmetric high data streaming rates

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Applications

- High-resolution video
- Local remote office
- Telemedicine
- Distance learning
- Disaster relieve
- Humanitarian support
BGAN HDR for U.S. government
Serving government mobile users worldwide

**Intelligence Community**
- Intel officials

**Defense Agencies**
- Mission command

**Public Safety**
- First responders

**Civilian Agencies**
- Remote workers
BGAN HDR summary
Superior video quality anywhere in the world

High data-rate video streaming
> Four-channel streaming rate up to 800kbps including symmetric and asymmetric options

Point-and-play easy-to-use terminals
> Connection can be established within minutes, with no technical expertise or training

Global, reliable, trusted service
> A trusted network from a single operator with 99.9% network availability globally
Thank you