Netflix® over Newfoundland at 40,000 Feet?

This and much, much more with the Honeywell JetWave™ global high bandwidth aircraft connectivity system.

JetWave is Honeywell’s new game-changing, high bandwidth cabin communications system, offering blazing speeds and world-wide access to everything from HD video conferencing to high speed data streaming.

JetWave is sold exclusively by Honeywell and utilizes the new Inmarsat I-5 Global Xpress™ Ka-band Satellite Constellation. JetWave provides the hardware platform that closely matches the on-the-ground, in-the-office user experience expected by today’s -- and tomorrow’s -- busy executive since JetWave’s scalability supports growth demands well into the future.

Integral to JetWave and its high speed delivery is Jet ConneX™. As the Master Distributor for the Jet ConneX service, Honeywell has selected five Distribution Partners who offer six monthly Subscription Service Packages (SSP) that include “roll-over” allowances.

Depending on the selected SSP, passengers experience CIRs of up to 6 Mbps and a Maximum Information Rate (MIR) of up to 15 Mbps (see Table 1).

And, with three satellites strategically located over the equator, worldwide coverage is provided (with the exception of the Polar Regions). Honeywell is also the only company to offer a Committed Information Rate (CIR)—a guaranteed minimum connection speed that ensures passengers will always be online throughout a flight.²

Table 1. Jet ConneX (JX) Service Plans

<table>
<thead>
<tr>
<th>Plans</th>
<th>Downlink CIR (Mbps)</th>
<th>Downlink MIR (Mbps)</th>
<th>Uplink CIR (Mbps)</th>
<th>Uplink MIR (Mbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JX-Promo</td>
<td>1.0</td>
<td>3.0</td>
<td>0.25</td>
<td>0.45</td>
</tr>
<tr>
<td>JX-1</td>
<td>1.5</td>
<td>4.6</td>
<td>0.4</td>
<td>0.7</td>
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<tr>
<td>JX-2</td>
<td>2.0</td>
<td>6.1</td>
<td>0.5</td>
<td>0.9</td>
</tr>
<tr>
<td>JX-3</td>
<td>2.6</td>
<td>7.7</td>
<td>0.6</td>
<td>1.0</td>
</tr>
<tr>
<td>JX-4</td>
<td>3.1</td>
<td>9.3</td>
<td>0.8</td>
<td>1.0</td>
</tr>
<tr>
<td>JX-5</td>
<td>6</td>
<td>15</td>
<td>0.8</td>
<td>1.0</td>
</tr>
</tbody>
</table>

JetWave hardware is available in two configurations: The MCS-8100 and the MCS-8000. MCS-8100 has a Fuselage Mount Antenna (FMA) for larger air transport category aircraft while the MCS-8000 has a Tail Mount Antenna (TMA).

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¹ The maximum speed they will receive.
² Connection will be at nothing less than CIR and will typically deliver rates exceeding the CIR data rates up to the MIR, whenever additional bandwidth is available.
Pilot & Crew
While not certified for Safety Services, both the flight and cabin crew will also have access to JetWave’s enhanced data rates to conduct AAC and AOC communications with base operations personnel.

Maintainer
Maintenance technicians will have access to real-time equipment status, providing them insight to any in-flight anomalies, faults or failures. Armed with this data, they can prepare for any maintenance actions and begin repairs as soon as the plane lands.

Executive & Owner
Executives and Owners are perhaps the greatest benefactors of JetWave technology. With data rates comparable to those found in earthbound home and office, it is either business as usual, or just catching up on the latest sporting event—while cruising to their next destination.

Direct Access
The Direct Access Mobile App, located nearest authorized service centers/dealers, gets technical support, contacts aircraft-on-ground (AOG) desks, and access pilots and flight department data.

FOR MORE INFORMATION

- The following Distribution Partners can provide detailed pricing information
  - Gogo Business Aviation: http://business.gogoair.com/
  - Satcom1 by Honeywell: http://www.satcom1.com/
  - SD (Satcom Direct): https://www.satcomdirect.com/contact-us/
  - SITAOnAir: http://www.sitaonair.aero/

- Contact a Honeywell Area Sales Manager, Strategic Sales Manager or your Honeywell Authorized Dealer at www.myaerospace.com to learn more about your options and pricing.
- View the video link at the Honeywell YouTube Channel.
- Read Honeywell’s Customer Commitment through its Success Stories.

TERMS & DEFINITIONS

- Aerospace-Centric Support: All three “layers” of the JetWave offering—the satellite constellation/Jet ConneX service, the JetWave hardware and Master Distributor role, and the direct-to-the-customer Distribution Partner network—are provided by aerospace-centric business enterprises with products, services, and knowledgeable personnel around the world to ensure maximum uptime regardless of the aircraft’s current location.

- Airplane Personality Module (APM): Provides airplane-unique parameter storage such as the Owner Requirements Table (ORT) and similar information.

- Connected Aircraft: As part of Honeywell’s connected aircraft strategy and offerings, JetWave has not only been designed to provide enhanced cabin connectivity, but to also co-exist with other current connectivity solutions, such as Air-To-Ground (ATG), SwiftBroadband, Iridium, and Classic Aero/Safety services, as well as other developing technologies.

- Designed-In Growth Capability: The system has also been optimized for network expansion, with initial expansion plans already underway. The Jet ConneX service began worldwide testing in August 2015 and full end customer use went live in the spring of 2016.

- Global Ecosystem: The JetWave / Jet ConneX “footprint” is the largest of any competitive offering, with three satellites covering virtually the entire globe and fourth satellite being planned for launch in 2016 as a redundant network backup.
- **KANDU** (Ka-Aircraft Network Data Unit): Provides power, control and the pointing data for the antenna and control signals to the KRFU
- **KRFU** (Ka-Radio Frequency Unit): On the transmit side the KRFU converts RF frequencies to Ka-Band frequencies. On the receive side, a High Power Amplifier (HPA) amplifies and converts K-band frequencies to RF
- **Mechanically Steered** TMA or FMA
- **Modman** (Modem Manager): Contains the satellite modem and provides the aircraft data interfaces
- **No Artificial Bandwidth Constraints**: Continual communication between JetWave hardware, the satellite and ground-based infrastructure enables the network to maintain a real-time inventory of users and to dynamically assign bandwidth. This ensures that guaranteed CIR data rates can be consistently met, with residual bandwidth proportionally assigned to achieve additional performance increases
- **Redundant Worldwide Ground Infrastructure**: While the satellite constellation is a critical part of the ecosystem, the Inmarsat-5 network is backed by a worldwide, world-class ground infrastructure as well. Each of the three satellite coverage regions (Indian Ocean, Atlantic Ocean, and Pacific Ocean) are supported by two terrestrial Satellite Access Stations for rain-fade protection via feeder link diversity, with all assets connected by a redundant global ring. This robust infrastructure is designed to constantly reassess real-time linkages to customer aircraft and automatically increase bandwidth where necessary
- **Outstanding System Co-Existence** by being a provider of a variety of mechanical and avionics products
- **The Best Distribution Network**: Five world-class Distribution Partners (DP) with global infrastructures have been selected as Value Added Resellers for Jet ConneX. This ensures the broadest possible selection of service offerings available to end-users guaranteeing a competitive marketplace that continually focuses on customer satisfaction throughout the product lifecycle. Customers are accustomed to contacting service providers for initial issue escalations and the JetWave/Jet ConneX DPs will continue to provide front-line support for customer escalations
- **Versatile Service Plans**: A variety of service offerings are available that will let users estimate their usage and match those needs to the plan(s) which most cost-effectively meet their requirements. Additional customer benefit is provided through the availability of unused data carryovers and even the ability to “hibernate” the service while an installed aircraft is unavailable due to maintenance downtime. The end result is a service that provides substantial value available as measured by dollars per megabyte consumed
- **Worldwide means you will stay connected for the entire flight**: The satellite constellation includes three identical satellites, covering the entire world (Polar Regions excluded), all with the same ownership and network infrastructure. Transition hand-offs between satellites is automatically managed for quick, seamless, and most importantly to the passenger, transparent operation.
ABOUT HONEYWELL AEROSPACE

With a century of aerospace achievements behind it, Honeywell Aerospace and its legacy companies—Sperry, Bendix, Garrett AiResearch, Grimes, King, Allied Signal, and EMS Technologies, and Satcom1 —to name a few, have been at the forefront of both military and civilian aviation advancement. Honeywell strives to enhance customer value by making flight safer, more reliable, more comfortable and more cost-effective. For more information about Honeywell and its century-long aviation adventure:

- **Explore** Honeywell’s incredible 100 years in aerospace
- **View** the redesigned Honeywell business aviation website
- **Download** Honeywell’s 2016 industry outlook.