Honeywell

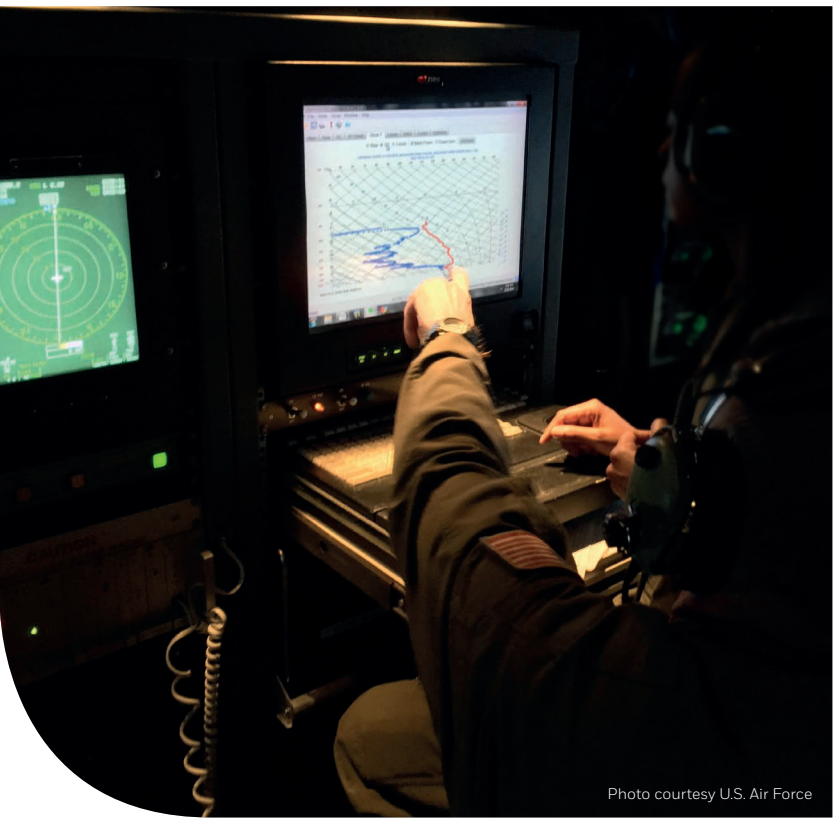


Photo courtesy U.S. Air Force

Photo courtesy U.S. Army

JETWAVE™

Satellite Communications System for Military Operators

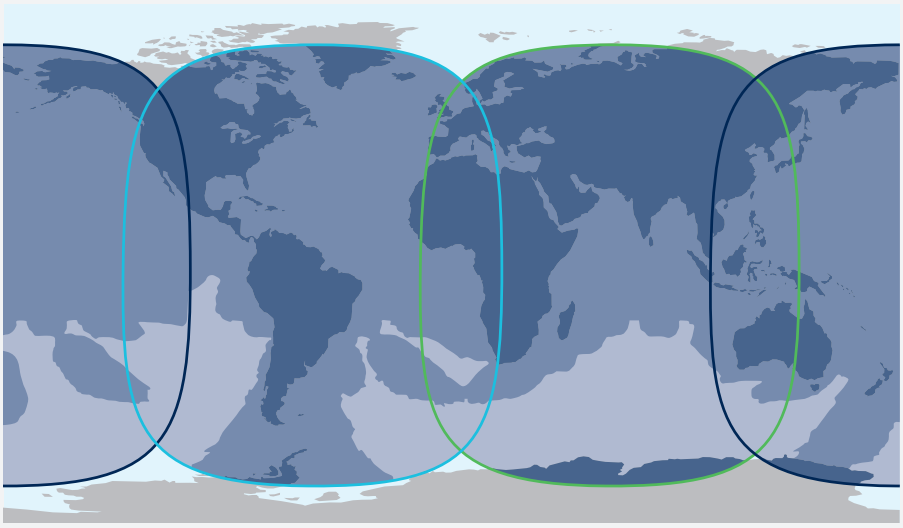
JetWave Satellite Communications System

Honeywell's JetWave™ satellite communications system provides seamless and reliable Ka-band connectivity for militaries worldwide. Designed to provide global broadband speeds and bandwidth, the Honeywell hardware and Inmarsat Global Xpress network are optimized for mobility to provide a consistent, secure, and high-speed environment for transmitting mission-critical information. The system can provide warfighters with unparalleled situational awareness, transforming the aircraft into a node in the battlefield network and enabling the warfighter to complete their mission safely.

The market-leading JetWave hardware, designed and manufactured by Honeywell, allows users to connect to the Inmarsat Global Xpress network, which brings Ka-band satellite coverage across the globe.

The Inmarsat Global Xpress network offers the most extensive global coverage for military airborne operators, including over water, over non-traditional flight paths, and in remote areas, providing the warfighter with a constant command and control link. Global Xpress has four times the available bandwidth compared to alternative solutions in Ku-band, making the network faster than current Ku-band market offerings.

For the unique environment of the military operator, JetWave and the Inmarsat Global Xpress network can enable a wide variety of mission-critical applications, such as real-time weather, video conferencing, large file transfer, encryption capabilities, in-flight briefings, ISR video, and secure communications. And the system is scalable and configurable for a wide variety of military platforms, with antenna options available for large and small airframes. Regardless of the airframe or its mission, JetWave can provide assured, high-speed, high-bandwidth, and secure connectivity to warfighters when and where they need it.



Key Features

- System operates on the worldwide Inmarsat Global Xpress network
- Inmarsat's Ka-band constellation provides global coverage, and spot beams can be directed to provide capacity for high-traffic areas
- True broadband class connectivity with data rates of up to 50 Mbps
- Two antenna configurations – Fuselage Mount Antenna (FMA) and Tail Mount Antenna (TMA) – for various aircraft types

Global Xpress Coverage Map

Components

Two antenna options:

Fuselage Mount Antenna (FMA)
Applicable to larger, air transport-sized aircraft

Tail Mount Antenna (TMA)
Applicable to smaller military/government aircraft and business aircraft

Ka-Band Radio Frequency Unit (KRFU)

Ka-Band Aircraft Networking Data Unit (KANDU)

Modem Manager (Modman)

Both antenna options include a common RF and antenna controller, modem and router.

SYSTEM DESCRIPTION/SPECIFICATIONS	
DESCRIPTION	**SYSTEM HARDWARE**
Ka-band Satcom Terminal	**ModMan** – Size 4.99" x 14.3" x 7.86" 4 MCU – Weight: 12.3 lbs **KRFU:** – Size: 2.9" x 18.93" x 9.01" – Weight: 14.9 lbs **KANDU:** – Size: 4.74" x 1.01" x 9.06" – Weight: 8.3 lbs **Fuselage Mount Antenna:** – Size: 35.72" swept volume x 9.39" high – Weight: 83.0 lbs **Tail Mount Antenna:** – Size: 9.25 x 13.15" x 13.66" swept volume 12.05 – Weight: 9.0 lbs
NETWORK SUPPORT	
Operates on the Inmarsat Global Xpress Fuselage-mounted antenna (MCS-8100) or Tail-mounted antenna (MCS-8000) Both systems include a common RF and antenna controller, modem & router	
MAXIMUM DATA RATES	
Up to 50 Mbps downlink Up to 5.0 Mbps uplink	
INTERFACES	
115 V / 400Hz AC Power Multi Ethernet data ARINC 429 from aircraft navigation bus	

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