JETWAVE™ MCX

High-speed multi-network satellite communications for military and government operators

Honeywell

JETWAVE™
MCX

Honeywell's Ka-Band satellite communications system optimized for MilGov applications

NEW SYSTEM DELIVERS SECURE MULTI-NETWORK CAPABILITY WITH GLOBAL COVERAGE

Honeywell's new JetWave™ MCX satellite communications system delivers the world's most advanced high-speed SATCOM capabilities designed to meet the unique needs of military and government fixed-wing aircraft operators.

JetWave™ MCX creates a connected-aircraft experience that is fast, reliable and always available to support your mission objectives. Whether you're operating an airborne command post, deploying troops into the battle zone, delivering mission-critical supplies, conducting Intelligence or surveillance operations, or taking a head of state from point a to point b, the JetWave™ is always mission-ready.

With JetWave™ MCX, onboard crew and mission personnel can use multiple on-board mission systems or personal electronic devices to connect seamlessly with command authorities on the ground, send and receive messages, upload and download large files, and send or receive live or recorded high-definition streaming data.

Ka-Band SATCOM optimized for MilGov operations

This breakthrough SATCOM shares DNA with Honeywell's highly successful JetWave system, which is flying today on thousands of commercial and military aircraft. But make no mistake, the JetWave™ MCX is not a commercial off-the-shelf solution. It's optimized to meet the specific requirements of military and government applications.

For starters, the JetWave™ MCX is designed to operate on the MilGov spectrum of the ultrafast and resilient Ka-Band (29-31 GHz transmit and 19.2-21.2 GHz receive) to seamlessly integrate with existing network hardware and infrastructure used by military and government operators. In addition, the MCX terminal retains the civil Ka-Band capabilities of legacy JetWave™ terminals.

The JetWave™ MCX can connect to any current or future Ka-Band network, such as the Inmarsat Global Xpress (GX) network. In government operation since 2014, Inmarsat's GX uses a five-satellite constellation to bring the benefits of a seamless, highly reliable, high-throughput SATCOM service.

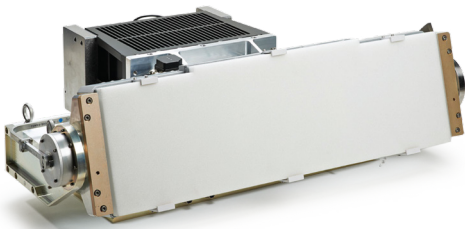## PURPOSE-BUILT FOR TODAY'S MISSION PROFILE

The JetWave™ MCX was purpose-built for military and government agencies, recognizing current priorities but with an eye on future needs. It provides a secure dual-network data connection for transmitting sensitive data between air and ground operations and providing operators with real-time situational awareness. Resilience is the name of the game for military and government SATCOM operations. The JetWave™ MCX provides secure and ultra-reliable end-to-end wideband connectivity worldwide, to help operators get the job done under the most challenging operating conditions.

With its multi-network capabilities, JetWave MCX operates like an unlocked smartphone in that it's able to roam among available networks and select the best – and most cost effective – connectivity option. For example, it gives operators the ability to connect to the Inmarsat GX network, 99.5% Committed Information Rate level. In addition, JetWave™ MCX is upgrade-ready to connect with the Wideband Global SATCOM (WGS) system beginning in 2022. The WGS network will deliver additional flexibility and cost benefits for MilGov operators. The system is also ready to connect with future military, government or commercial Ka-Band networks.

PURPOSE-BUILT

Ka-band optimized high-speed Satcom terminal design for military and government operators & aircraft.

Fuselage Mount Antenna (FMA)

Block-up Converter (BUC))

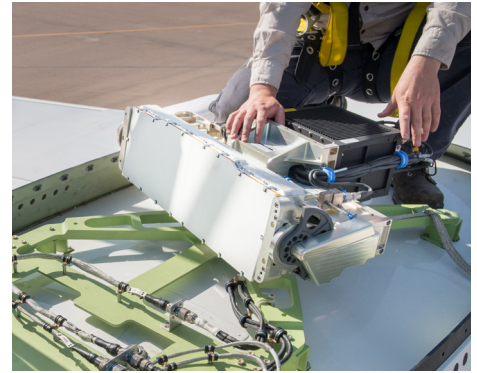*Ka-Band Aircraft Networking Data Unit (KANDU)*

Modem Manager (Modman)

THE JETWAVE MCX ADVANTAGE

- Real-time situational awareness
- Wideband, global Ka-Band coverage (29-31 GHz)
- Optimized for military and government operations
- Non-vendor locked solution; multi-network Ka-Band capabilities
- Single IP for multiple services
- Reliable beyond visual line of sight (BVLOS) capabilities
- Jam-resistant for extra resilience in hostile environments
- Dual polarity for increased bandwidth in high-traffic areas
- Compatible with current and future Ka-Band networks (MEO/GEO)
- Defense-optimized and designed for low cost of ownership
- Ready for WGS operations in 2022

SYSTEM HARDWARE	SPECIFICATIONS
Modem Manager	Size 5.02" × 15.32 "× 7.88" 4MCU Weight: 14.0 lbs
Aircraft Personality Module (APM)	Size: 4.52"x4.02"x1.32" Weight: 0.75 lbs
Block-Up Converter (BUC)	Size: 2.08" x 16.55" x 9.01" Weight: 11.5 lbs
KANDU	Size: 4.76" x 11.02" × 9.08" Weight: 8.8 lbs
Fuselage Mount Antenna	Size: 35.72" swept volume x 9.39" high Weight: 88.0 lbs

Fuselage Mount Installation

Military operational missions:

- Airborne intelligence, surveillance and reconnaissance

- Special operations and expeditionary forces

- Command and control
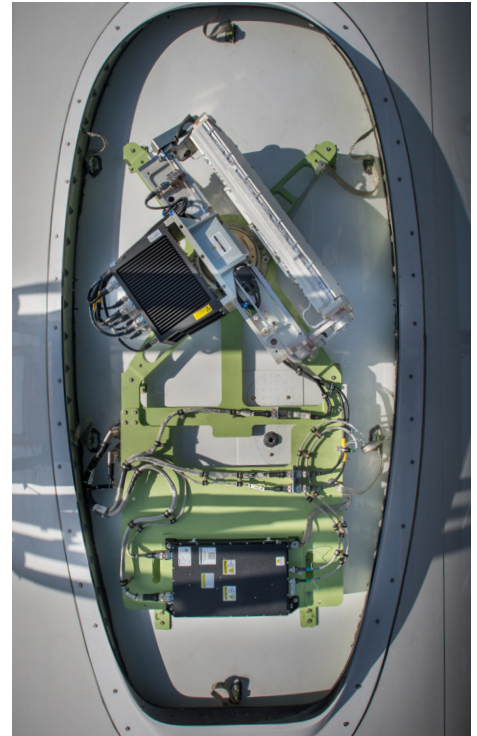
- Search and rescue mission

- Theater backhaul

Government operational missions

- Executive and head of state transportation

- Humanitarian aid and disaster relief operations

THE HONEYWELL DIFFERENCE

Honeywell pioneered satellite communications technology more than four decades ago. Today, we're the leading provider of connectivity solutions including products, services, and software solutions for all types of commercial and military aircraft. With the JetWave™ MCX, we've introduced the most advanced satellite communications system ever developed for MilGov operators, with unprecedented levels of speed, reliability, and worldwide coverage. The JetWave™ MCX is supported by our signature Honeywell Forge connectivity services and data analytics platform, which gives you the tools you need to get connected, stay connected and stay mission-ready.

Honeywell Aerospace

1944 East Sky Harbor Circle
Phoenix, Arizona 85034
aerospace.honeywell.com

THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell