



The Future of Wave Relay® MANET

Broadcast Microwave Services (BMS) introduces the BMTS-MA MANET transceiver system as an airborne video and data solution with the power of the Wave Relay® MANET. The BMTS-MA transceiver contains everything needed for high quality, reliable, and secure streaming of high-definition video on Wave Relay® MANET networks.

The BMTS-MA ultra-long transceiver is optimized for air-to-ground, or air-to-air broadcasts of via a single radio channel using 3 x 3 MIMO technology. MIMO technology employs techniques such as Spatial Multiplexing & Maximum Ratio Combining to move data even faster. BMTS-MA transceiver configuration, control, and troubleshooting is performed in flight by the pilot-or crewmember operated DLC50 Control Panel—or securely from the ground by network administrators via a GUI.

BMTS-M MANET Transceiver System Configuration



BMTS-MA Airborne
Transceiver



DLC-50
Control Panel



BMTS-MI Indoor
Communications and
Control Unit



Integrated Antenna

BMTS-M System Features

- Bidirectional broadband data, including HD video multicasting
- H.265 compression for efficient bandwidth usage
- Wave Relay® MANET - Automatic relay of information across all platforms and users on the same network
- 3x3 MIMO technology for superior connectivity and speed
- DO-160 compliant aircraft equipment
- Integrates with Wave Relay® MANET networks
- AES 256 encryption
- Orthogonal Frequency Division Multiplexing (OFDM) and signal diversity for improved signal recovery
- Single radio channel transmission for streamlined operations and electromagnetic efficiencies
- Short antenna and radio connections to minimize signal loss

BMTS-M Wave Relay® Modules

Compatibility

Built using the Wave Relay® Embedded Module, and compatible with all Persistent Systems products including the MPU5

Bandwidth

5, 10, 20 MHz SW configurable

RF Modulation

OFDM (64-QAM, 16-QAM, QPSK, BPSK)

RX/RX Operating Modes

All modes from SISO to 3x3 MIMO

RF Output Power

L-Band Freq. Range:

1350-1390 MHz - 10W (3.3W per RF Chain)

S-Band Freq. Range:

2200-2507 MHz - 10W (3.3W per RF Chain)

Lower C-Band Freq. Range:

4400-5000 MHz - 6W (2W per RF Chain)

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