

# AIRBORNE MEDIUM DATA RATE SATCOM SYSTEM



DEMO  
UNIT  
ONLY!

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The Medium Data Rate Satcom System (MDSS), developed by QUALCOMM, for use aboard aircraft offers high-speed (up to 128 kbps), high-quality digital voice and data communications for airborne applications.

Globalstar's two-way communications capability allows access to and from airborne platform equipped with MDSS.

Using the Globalstar satellite system, The MDSS supports any aviation application including high-speed access to Internet, email, or private networks.

Other potential applications include, real-time video and audio monitoring of aircraft cabins and cockpits; an Air Traffic Control service to alert aviation authorities of emergency situations, allowing ground support teams to rapidly assess and respond to crisis situations; remote control of onboard aircraft cameras; transmission of real-time aircraft flight data to the ground; on-the-ground access to and possible automated real-time monitoring of flight data and cockpit voice recorders; dedicated voice communications for Air Marshals to the cockpit and ground; in-flight emergency safety and medical services; and back-up transponders with aircraft identification, altitude, speed and location information.

#### Features of the MDSS include:

- Up to 128 kbps packet data now with extension to 600 kbps under study
- Voice and data capabilities
- Small, lightweight (less than 50 pounds)
- FAA-approved antenna suitable for all aircraft (9.5"L x 3.75"W x 1.7"H and less than two pounds)
- Rugged design allows for operation inside and outside of pressurized vessel
- Meets all existing Federal Communications Commission requirements
- FAA certifications in process

#### The MDSS consists of the following hardware components:

- 4 MCU (14.7"L x 7.8"H x 5"W) tray-mounted Medium Data Rate Terminal (MDT); weighs approximately 19 pounds
- 2 MCU (12.5"L x 7.8"H x 2.4"W) tray-mounted RF Power Amplifier (RFPA); weighs approximately 13 pounds
- Transmit Filter (Non-standard size approximately equal to 3 MCU flange-mounted (14"L x 7.8"H x 4"W); weighs less than 10 pounds
- Quad Patch Antenna; (9.5"L x 3.75"W x 1.7"H) weighs less than 2 pounds

