

**Airborne
High-Speed
Internet
Connectivity**

FliteStream™ F-510

F-500 Series: Special Mission SATCOM System



FEATURES

- Enjoy seamless high-speed internet connectivity from the moment you step on board the aircraft to when you land upon mission completion.
- Browse the internet, send and receive emails, make calls using Voice-Over-IP (VoIP), access VPN services, conduct video conferences, utilize mission specific or entertainment applications.
- Provides global always-on broadband data access
- Highest performing Ku band SATCOM antenna system critical for low angle satellite coverage while flying at higher latitudes.
- Works seamlessly with any IP device such as laptops, tablets, and smart phones.
- Satellite tracking design allows for full continuous motion in azimuth and -10 to +90 degree motion in elevation. Provides full reception performance during aircraft flight maneuvers, even at higher latitudes.
- Antenna is mounted externally to the aircraft under a protective radome enclosure.

GLOBAL COVERAGE

With Ku band satellite coverage, you can operate globally without settling for less.





Antenna - GAU



HPT



ACMU

INPUTS

Power: 115VAC (360Hz or 800 Hz)

Control Interface: Ethernet

Navigation Interface: ARINC 429

LRU's

F-510 system is composed of 3 aircraft LRU's:

1. Gimbal Antenna Unit (GAU).
2. Antenna Control & Modem Unit (ACMU).
3. High Power Transceiver (HPT)

CERTIFICATION

- RTCA DO-160 & RTCA/DO-178 compliant
- Design based on proven technology used on multiple aircraft types.

TYPICAL PERFORMANCE

GAU Aperture Size: 60cm

EIRP: 50.5 dBW @ 14.5 GHz

G/T (15°K Sky Temperature): 17.6 dB/K @ 12.75 GHz

Receive Frequency: 10.7 GHz to 12.75 GHz

Transmit Frequency: 13.75 GHz to 14.5 GHz

Polarization: Linear Orthogonal Tx/Rx

Cross Polarization Rejection: 20 dB

Polarization Control: 45°±110°

Field of View:

Azimuth (continuous): 360°

Elevation: +90° to -10°

Roll, Pitch, Heading Rates of Change: 13.0° / Second

Roll, Pitch, Heading Acceleration: 13.0° / Second / Second

TYPICAL PERFORMANCE

Weight (w/o power amplifier):

GAU (Antenna): 33 Lbs (15 Kg).

ACMU: 24 Lbs (11 Kg).

Power (w/o power amplifier): <150 Watts on average

GAU Operating Temperature: -55° to +70° C

ACMU Operating Temperature: -15° to +70° C

Modes of Operation: Pointing, BIT, Stowage, Maintenance

40W HPT SPECIFICATION

Power: <400W

Operating Temperature (baseplate): -40°C to +55°C

HPT Weight: 20 Lbs (9.3 Kg).

RADOME SPECIFICATION

Size & Weight: TBD. Varies with aircraft design.

COMPATIBLE MODEMS

Inquire for latest list of compatible modems

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