

**High Speed
In-Flight
Connectivity**

FliteStream™ F-310

F-300 Series: Fuselage Mount HTS SATCOM System



FEATURES

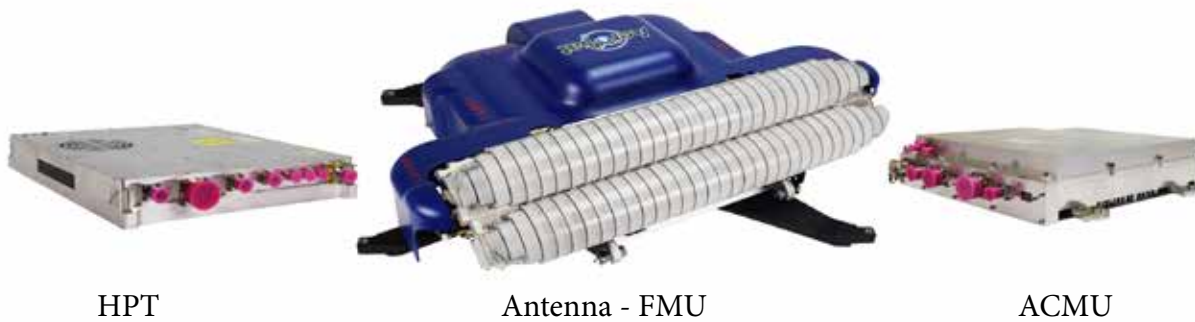
- Optimized to take advantage of next generation High Throughput Satellite (HTS) spot beam technology.
- Enjoy seamless high-speed connectivity from the moment you step on board the aircraft to when you land at your destination.
- Browse the internet, send and receive emails, make calls using Voice-Over-IP (VoIP), access VPN services, conduct video conferences, enjoy your favorite work or entertainment applications.
- Provides global always-on broadband internet access.
- Highest performing Ku-band SATCOM antenna system critical for low angle satellite coverage while flying at higher latitudes.
- Works seamlessly with laptops, tablets, and smart phones.
- ITU compliant Ku-band SATCOM antenna system.
- 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.

■ Current Service ■ Future High Throughput Service





HPT

Antenna - FMU

ACMU

INPUTS

Power: 115VAC, 400Hz
 Control Interface: Ethernet
 Navigation Interface: ARINC 429

LRU's

F-310 system is composed of 3 aircraft LRU's:
 1. Antenna (Fuselage Mount Unit - FMU).
 2. Antenna Control & Modem Unit (ACMU).
 3. High Power Transceiver (HPT)

CERTIFICATION

- RTCA DO-160 & RTCA/DO-178 compliant

EXPECTED PERFORMANCE

EIRP: 45.5 dBW (40W HPT)
 G/T (25°K Sky Temperature): 11.7 dB/K @ 11.7 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: 7.0° / Second
 Roll, Pitch, Heading Acceleration: 7.0° / Second / Second

EXPECTED PERFORMANCE

Weight (w/o power amplifier):
 FMU (Antenna): 64 Lbs.
 ACMU: 21 Lbs.
 ACMU Size: 16.25"x3.9"x14.7"
 Power (w/o power amplifier): <150 Watts on average
 FMU Operating Temperature: -55° to +70° C
 ACMU Operating Temperature: -15° to +55° C
 Modes of Operation: Pointing, BIT, Stowage,
 Maintenance

40W HPT SPECIFICATION (TENTATIVE)

Power: 400W on average
 Operating Temperature: -15°C to +55°C
 Weight: <21 Lbs.
 Size: 19.3"x2.5"x15.0"

COMPATIBLE MODEMS

Inquire for latest list of compatible modems

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