

**High Speed
In-Flight
Connectivity**

FliteStream™ F-310

F-300 Series: Fuselage Mount HTS SATCOM System



FEATURES

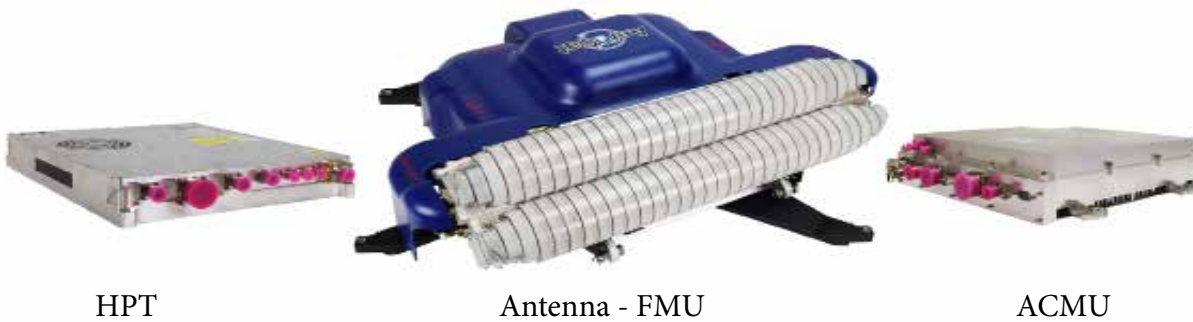
- Optimized to take advantage of next generation High Throughput Satellite (HTS) spot beam technology.
- Enjoy seamless high-speed connectivity from the moment you step on board the aircraft to when you land at your destination.
- Browse the internet, send and receive emails, make calls using Voice-Over-IP (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

TYPICAL 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

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

Astronics AeroSat

60A Route 101A

Amherst, NH 03031

USA

Phone: +1 (603) 879-0205

E-Mail: aerosat.info@astronics.com

Website: www.aerosat.com

