F-310
F-300 Series: Fuselage Mount Internet SATCOM System

High-Performance Connectivity System
- 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.
- Use with laptops, tablets, and smart phones of your choice.

Robust Design
- ITU compliant Ku-band SATCOM antenna system.
- Satellite tracking design allows for full continuous motion in azimuth and -10° to +90° 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.
- With Ku-band you can select from many different satellite operators. This provides flexibility and operational security.
- Compatible with both traditional wide-beam and next generation spot beam HTS satellite constellations.

KEY BENEFITS
- Keeps you connected, productive & entertained.
- Global operation even over water.
- Provides high-speed internet using wide beam and spot beam Ku-band satellites.
- Fits under the AeroShield® ARINC 791 radome and adapter plate system.
- Open-architecture: can operate over any Ku-band network when paired with compatible modem.
LRUs
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).

Radome
• The F-310 can be paired with the AeroShield® ARINC 791 style Radome and Adapter Plate mounting system.
• AeroShield® Radome provides optimized Ku-band transmissivity and aerodynamics, reducing drag for fuel savings.
• AeroShield® Radome is fully bird-strike compliant.

Integrated Modems
• Inquire for latest list of compatible modems.

Get Started Today
For additional details, please contact Astronics AeroSat.

<table>
<thead>
<tr>
<th>LRU</th>
<th>FMU (Antenna): 64 Lbs (29 Kg).</th>
<th>ACMU: 21 Lbs (9.5 Kg).</th>
<th>HPT: 19 Lbs (8.6 Kg).</th>
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<tr>
<th>Inputs</th>
<th>Power: 115VAC, 400Hz</th>
<th>Control Interface: Ethernet</th>
<th>Navigation Interface: ARINC 429</th>
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<tr>
<th>Certification</th>
<th>RTCA DO-160 &amp; DO-178 compliant.</th>
<th>Design based on proven technology used on multiple aircraft types.</th>
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<th>F-310 SPECIFICATIONS</th>
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Typical 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:**
  - 12.0° / Second
- **Pointing Accuracy:**<0.2°
- **Roll, Pitch, Heading Acceleration:**
  - 12.0° / Second / Second
- **Weight:**
  - FMU (Antenna): 64 Lbs (29 Kg).
  - ACMU: 21 Lbs (9.5 Kg).
  - HPT: 19 Lbs (8.6 Kg).
- **Power:**
  - ACMU: <150W Typical
  - HPT (40W): 400W typical
- **Operating Temperature:**
  - FMU: -55° to +70° C
  - ACMU: -15° to +55° C
  - HPT: -55° C to +70° C

Get Started Today
For additional details, please contact Astronics AeroSat.

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