ASTRONICS AEROSAT

ASTRONICS.COM



FliteStream

# FliteStream® T-310

## T-300 Series: Tail Mount Broadband Internet SATCOM System

### High-Throughput Satellite (HTS) Ready

- The FliteStream T-310 system was designed for maximum performance while operating using next generation Ku-band HTS spot beams.
- The FliteStream T-310 system contains the integrated next generation modem required for HTS spot beam operation providing minimum beam-to-beam switchover latency.
- Compatible with both Ku-band conventional wide-beam and next generation spot beam satellites

### High-Performance Connectivity System

- Enjoy seamless high-speed connectivity from takeoff to touchdown.
- 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.
- Stream your favorite internet TV channels (e.g. Hulu®, Netflix®).
- Works seamlessly with laptops, tablets, and smart phones.

### Robust Design

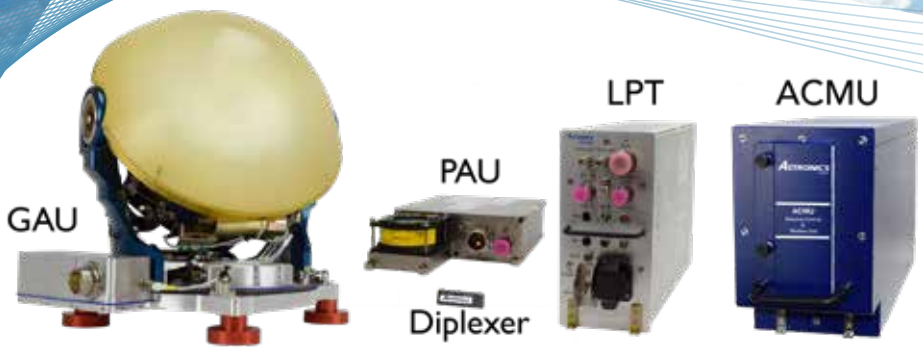
- Satellite tracking design allows for full continuous motion in azimuth and -0 to +90 degree motion in elevation.
- Provides full reception performance during aircraft flight maneuvers, even at higher latitudes.
- Antenna is mounted externally to the aircraft under a protective radome enclosure located on the aircraft tail.

### 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.

### KEY BENEFITS

- Compatible with next generation HTS spot beam and traditional wide beam Ku-band satellites.
- Keeps you connected, productive & entertained.
- Global operation even over water.
- Provides high-speed internet.
- Fits under most tail Ku-band radomes.
- Open-architecture: can operate over any Ku-band network when paired with compatible modem.




## Inputs

- Power: +28 VDC
- Control Interface: Ethernet
- Navigation Interface: ARINC 429
- Discrete Interface: WOW, Flap Position

## Certification

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

## Integrated Modems

- iDirect Velocity CX780

## LRUs

T-310 system is composed of 5 aircraft LRU's:

1. Gimbal Antenna Unit (GAU).
2. Antenna Control & Modem Unit (ACMU).
3. Low Power Tranceiver (LPT).
4. Power Amplifier Unit (PAU).
5. Diplexer.

## Get Started Today

For additional details, please contact Astronics AeroSat.

220 Hackett Hill Rd.
Manchester, NH 03102
+1.603.879.0205

AeroSat.Info@Astronics.com
**www.aerosat.com**

## FLITESTREAM T-310 SPECIFICATIONS

### Typical Performance

GAU Aperture Size: 29cm
EIRP: 41.9 dBW (25W PAU)
G/T (150$^0$K Sky Temperature): 11.5 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 Tx/Dual Pol Rx, Dual Pol Circular Rx only
Cross Polarization Rejection: 20 dB
Polarization Control: 45$^0$±105$^0$
Field of View:
  Azimuth (continuous): 360$^0$
  Elevation: +90$^0$ to -0$^0$

Roll, Pitch, Heading Rates of Change: >12.0$^0$ / Second

Roll, Pitch, Heading Acceleration: >12.0$^0$ / Second / Second

Pointing Accuracy: <0.2$^0$

WEIGHT:
  GAU (Antenna): 23.5 Lbs (10.7 Kg)
  ACMU: 14.5 Lbs (6.6 Kg) (ARINC 600 - 4 MCU)
  Diplexer: 0.2 Lbs (0.1 Kg)
  LPT: 13 Lbs (5.9 Kg) (ARINC 600 - 3 MCU)
  PAU: 8.6 Lbs (3.9 Kg)

POWER:
  LPT: 400 Watts Typical
  ACMU: 75W Typical

OPERATING TEMPERATURE:
  GAU: -55$^0$ to +70$^0$ C
  ACMU: -40$^0$ to +55$^0$ C
  LPT: -40$^0$C to +55$^0$C
  PAU: -40$^0$C to +70$^0$C
  Diplexer: -55$^0$ to +70$^0$ C