

T-311

T-300 Series: Tail Mount Broadband Internet SATCOM System

The latest next-generation T-Series system for maximum performance.

High-Throughput Satellite (HTS) Ready

- The T-311 system was designed for maximum performance using next generation Ku-band HTS spot beams.
- The T-311 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[®]).
- Use with laptops, tablets, and smart phones of your choice.

Robust Design

- Satellite tracking design allows for full continuous motion in azimuth and -0° 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 located on the aircraft tail.

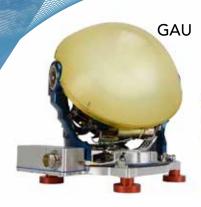
Global Coverage

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

KEY BENEFITS

- Minimized system weight.
- Minimized system power usage.
- 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

BUC

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

Integrated Modems

• iDirect Velocity CX780.

LRUs

T-311 system is composed of 4 aircraft LRU's:

- 1. Gimbal Antenna Unit (GAU).
- 2. Antenna Control & Modem Unit (ACMU).
- 3. Block Up Converter (BUC).
- 4. Block Down Converter (BDC).

T-311 SPECIFICATIONS

Typical Performance

GAU Aperture Size: 29cm EIRP: 41.9 dBW (25W PAU)

G/T (150°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

Linear Tx/Dual Pol Rx, Dual Pol Circular Rx only

Cross Polarization Rejection:

20 dB

Polarization Control: $45^{\circ} \pm 105^{\circ}$

Field of View:

Azimuth (continuous): 360°

Elevation: $+90^{\circ}$ to -0°

Roll, Pitch, Heading Rates of Change: >12.0° / Second

Roll, Pitch, Heading Acceleration: >12.0° / Second / Second

Pointing Accuracy: <0.2°

GAU: Power Supplied By ACMU Polarization:

ACMU: 75W Typical

WEIGHT:

POWER:

BUC: Power Supplied By BDC

BDC: 130 W Typical

OPERATING TEMPERATURE:

GAU: 23.5 Lbs (10.7 Kg)

ACMU: 12.8 Lbs (5.8 Kg)

BUC: 4 Lbs (1.81 Kg)

BDC: 7 Lbs (3.175 Kg)

GAU: -55°C to +70°C ACMU: -40°C to +55°C

BUC: -55°C to +70°C BDC: -40°C to +55°C

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