T-310
T-300 Series: Tail Mount Broadband Internet SATCOM System

High-Throughput Satellite (HTS) Ready
• The T-310 system was designed for maximum performance using next generation Ku-band HTS spot beams.
• The 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®).
• Use with laptops, tablets, and smart phones of your choice.
• Stream your favorite internet TV channels (e.g. Hulu®, Netflix®).
• With Ku-band satellite coverage, you can operate globally without settling for less.

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

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.

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

Integrated Modems
• iDirect Velocity CX780.

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

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T-310 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
Polarization:
Linear Tx/Dual Pol Rx,
Dual Pol Circular Rx only
Cross Polarization Rejection: 20 dB
Polarization Control: 45°±105°
Field of View:
Azimuth (continuous): 360°
Elevation: +90° to -90°

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

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

Pointing Accuracy: <0.2°

WEIGHT:
GAU (Antenna):
23.5 Lbs (10.7 Kg)
ACMU: 12.8 Lbs (5.8 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° to +70° C
ACMU: -40° to +55° C
LPT: -40°C to +55°C
PAU: -40°C to +70°C
Diplexer: -55° to +70° C