

**In-Flight
High-Speed
Internet &
Live TV
Connectivity**

FliteStream™ T-210

T-200 Series: Tail Mount Data & TV SATCOM System



FEATURES

- 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.
- Enjoy hundreds of channels of Direct Broadcast Service television (DBS-TV).
- Provides dual capability of receiving both DBS-TV and broadband internet connectivity in a single antenna package.
- Highest performing tail mount Ku band SATCOM antenna system critical for low angle satellite coverage while flying at higher latitudes.
- Works seamlessly with laptops, tablets, and smart phones.
- 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.





INPUTS

Power: +28 VDC

Control Interface: Ethernet

Navigation Interface: ARINC 429

LRU's

T-210 system is composed of 5 aircraft LRU's:

1. Antenna (Tail Mount Unit - TMU).
2. Antenna Control & Modem Unit (ACMU).
3. Low Power Transceiver (LPT)
4. Power Amplifier Unit (PAU)
5. Diplexer

CERTIFICATION

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

TYPICAL PERFORMANCE

TMU Aperture Size: 29cm

EIRP: 41.9 dBW (25W LPT)

G/T (15°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 -0°

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TYPICAL PERFORMANCE

Roll, Pitch, Heading Rates of Change: >7.0° / Second

Roll, Pitch, Heading Acceleration:

>7.0° / Second / Second

Weight (w/o power amplifier):

TMU (Antenna): 23 Lbs.

ACMU: 15.5 Lbs. (ARINC 600 - 4 MCU)

Diplexer: 0.3 Lbs

Power (w/o power amplifier): <150 Watts on average

TMU Operating Temperature: -55° to +70° C

ACMU Operating Temperature: -20° to +70° C

Modes of Operation: Pointing, BIT, Stowage, Maintenance

LPT/PAU SPECIFICATION

PAU Power: 25W

LPT/PAU Operating Temperature: -55°C to +70°C

LPT Weight: 14 Lbs. (ARINC 600 - 3 MCU)

PAU Weight: 8.5 Lbs. (ARINC 600 - 3 MCU)

RELIABILITY

TMU MTBF: >25,000 hours

ACMU MTBF: >20,000 Hours

LPT MTBF: >20,000 Hours

PAU MTBF: >20,000 Hours

Diplexer MTBF: >30,000 Hours

COMPATIBLE MODEMS

iDirect: e850MP



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