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ASTRONICS
AeroSat



IN-FLIGHT CONNECTIVITY

Broadband Internet and Television, Wherever & Whenever You Need It!



- VIDEO STREAMING
- INTERNET
- EMAIL
- INSTANT MESSAGING
- VOICE (VoIP)
- LIVE TV & IPTV



ASTRONICS
AeroSat

The Better Passenger Experience.

As you step onboard your aircraft, you are immediately connected to the world of business, news, and entertainment - no waiting until you are off the ground and at altitude to get connected, and that's true whether you are in Los Angeles, Singapore, or Dubai. Wherever & whenever you fly, FliteStream's worldwide connectivity solutions enhances the value of the time you spend onboard your aircraft.

Developed specifically for airline, business, and VVIP aircraft, FliteStream™ provides a better passenger experience you require, including:

- **Increased Performance.** With AeroSat's patented Rexolite® lens-horn antenna technology, we eliminate typical antenna feed horns that reduce system performance. Therefore, you will experience longer periods of connectivity within each satellite beam compared to others for more consistent communications.
- **Fuselage and Tail-Mount Solutions.** FliteStream™ solutions come in both fuselage and tail-mount configurations without giving up performance. This ensures optimum solutions no matter what type of aircraft you operate.
- **Global Connectivity.** FliteStream™ operates globally utilizing any compatible Ku-band network.
- **Regional DBS-TV.** FliteStream™ provides global DBS-TV reception capabilities utilizing free-to-air and subscription based TV services such as Dish, DirecTV, Canalsat, Sky TV and others.
- **Worldwide Support.** AeroSat offers worldwide support to ensure maximum network up-time.
- **Open Architecture.** AeroSat's open-architecture design allows operation over any compatible Ku-band network for maximum flexibility.

Open Architecture (Customized Solutions To Fit Your Unique Needs)

Astronics AeroSat's connectivity solutions allow you to choose from multiple satellite network partners that best match your unique operational needs. Since FliteStream™ systems are designed to be open-architecture, this allows for optimized solutions to be constructed. Why settle for single source solutions and sub-optimal performance? Choose AeroSat FliteStream™ to maintain configuration flexibility and future-proofing as technology changes over time.

- **Multiple Satellite Network Providers.** FliteStream's open-architecture allows you to choose a Ku-band satellite network partner that best fits your operational needs. Don't settle for a closed satellite network, obtain truly global connectivity by choosing an open-architecture satellite network that meets your operational needs!
- **Scalable Network.** Unlike closed networks that utilize only 3 or 4 satellites, FliteStream's open-architecture takes advantage of over 150 satellites already in orbit around the earth. When closed networks reach capacity limitations, new satellites must be designed, built, and launched – a process that take years to complete. With FliteStream's open-architecture design, additional capacity can be secured quickly by adding existing satellites to the network. This rapid response time prevents “choke points” that can occur on high-usage routes found in closed-architecture networks.
- **Future-Proofed.** FliteStream's open-architecture allows the system to be upgraded and improved as technology progresses. No need to settle for a single solution that has to be scrapped due to obsolescence.

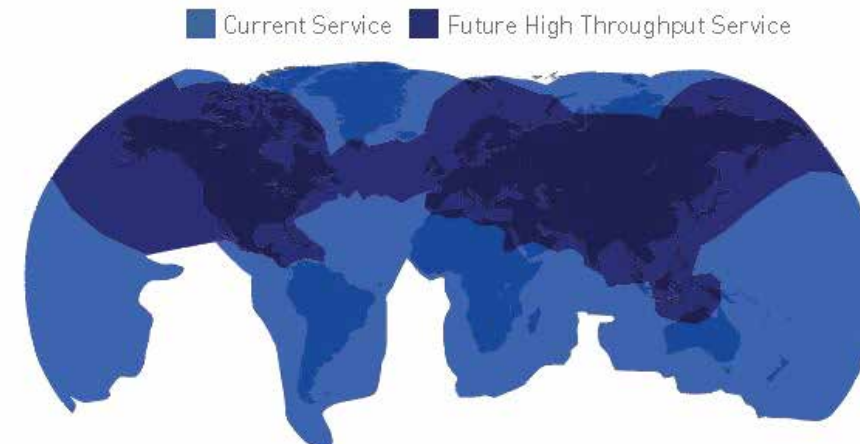
Tail-Mounted Solutions



Fuselage-Mounted Solutions



Network Coverage



Proven Performance

- AWARD WINNING KU-BAND NETWORK ✓
- HIGH-SPEED BANDWIDTH ✓
- SYSTEM RELIABILITY ✓
- LOWEST INSTALLED COST ✓
- AVAILABLE TODAY ✓
- NEXT-GEN NETWORK UPGRADABILITY ✓

FliteStream™ T-210, Tail-Mounted Data & DBS-TV Solution.

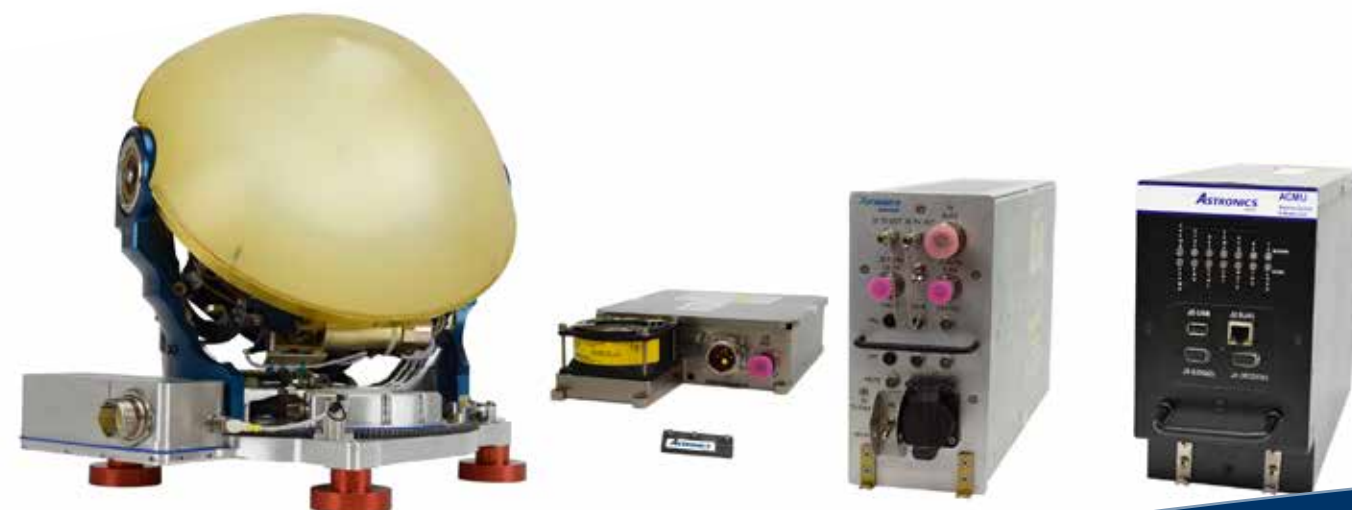
Astronics AeroSat's tail-mounted T-210 solution offers broadband data and DBS-TV connectivity with unobtrusive installation locations for business, VVIP, and regional airline aircraft.

The FliteStream™ T-210 system is composed of the following LRU's: 1. Gimbal Antenna Unit (GAU) 2. Power Amplifier (PAU) 3. Antenna Control & Modem Unit (ACMU) and 4. Low Power Transceiver (LPT).

The FliteStream™ T-210 provides superior performance in the following areas:

- **System Efficiency (Sensitivity).** The T-210 utilizes patented Rexolite® lens-horn technology unlike other systems. This eliminates typical antenna feed horns used by all others, which block signals and reduces sensitivity.
- **High Data Speeds.** The T-210 contains the processing power to support data connection speeds in excess of 40 Mbps. The actual realized speeds obtained will be determined by the Ku-band satellite network and bandwidth packages selected for your connectivity service.
- **Antenna Size.** The T-210 antenna height and width is designed to fit anywhere existing tail mount DBS-TV and data antennas are used today. This allows for upgrading of the aircraft from TV or data only to data & TV functionality utilizing the same radome and mounting location as the current installed system.
- **Data & DBS-TV Dual Functionality.** The T-210 is the only tail-mounted SATCOM system available that can provide both internet access and live DBS-TV from a single system. No need to have two antennas and associated weight and cost impacts of two systems.

FLITESTREAM™ T-210



FliteStream™ T-220, Tail-Mounted Data, DBS-TV, & Global TV Solution.

Astronics AeroSat's tail-mounted T-220 solution offers broadband data, DBS-TV, and Panasonic Global TV connectivity with unobtrusive installation locations for business, VVIP, and regional airline aircraft.

The FliteStream™ T-220 system is composed of the following LRU's: 1. Gimbal Antenna Unit (GAU) 2. Power Amplifier (PAU) 3. Antenna Control & Modem Unit (ACMU) and 4. Low Power Transceiver (LPT).

The FliteStream™ T-220 provides superior performance in the following areas:

- **System Efficiency (Sensitivity).** The T-220 utilizes patented Rexolite® lens-horn technology unlike other systems. This eliminates typical antenna feed horns used by all others, which block signals and reduces sensitivity.
- **High Data Speeds.** The T-220 contains the processing power to support data connection speeds in excess of 40 Mbps. The actual realized speeds obtained will be determined by the Ku-band satellite network and bandwidth packages selected for your connectivity service.
- **Antenna Size.** The T-220 antenna height and width is designed to fit anywhere existing tail mount DBS-TV and data antennas are used today. This allows for upgrading of the aircraft from TV or data only to data & TV functionality utilizing the same radome and mounting location as the current installed system.
- **Data & TV Dual Functionality.** The T-220 is the only tail-mounted SATCOM system available that can provide both internet access, live DBS-TV, and Panasonic global TV from a single system. No need to have two antennas and associated weight and cost impacts of two systems.
- **Live Television, Worldwide.** Unlike other service providers, Panasonic enables passengers to watch live news and sports events as they unfold anywhere within their worldwide coverage, without impacting the Wi-Fi connection or data usage allocations.



FLITESTREAM™ T-220



FliteStream™ F-310, Fuselage-Mounted Data Solution.

Astronics AeroSat's fuselage-mounted F-310 solution offers superior technical performance required for consistent and reliable world-wide operation plus compatibility with next-generation High-Throughput Satellites (HTS).

The FliteStream™ F-310 is composed of a fuselage-mounted SATCOM antenna installed inside of a protective radome enclosure accompanied with avionics LRU's: 1. High Power Transceiver (HPT) and 2. Antenna Control & Modem Unit (ACMU).

The FliteStream™ F-310 provides superior performance in the following areas:

- **LRU Count.** The F-310 solution is composed of only 3 LRU's. This increases system reliability and reduces installation weight and complexity.
- **System Efficiency (Sensitivity).** The F-310 utilizes patented Rexolite® lens-horn technology unlike other systems. This results in increased spectral efficiencies comparable to larger antenna sizes.
- **HTS Satellite Compatibility.** The F-310 contains state-of-the-art modems to be compatible with next-generation Ku-band High Throughput Satellites (HTS) providing unmatched bandwidth speeds and performance.
- **High Data Speeds.** The F-310 contains the processing power to support data connection speeds in excess of 40 Mbps. The actual realized speeds obtained will be determined by the Ku-band satellite network and bandwidth packages selected for your connectivity service.
- **Antenna Size.** The F-310 height and width is minimized for use under low profile fuselage radomes. This allows for installation into smaller aircraft locations and maximizes installation flexibility.
- **System Weight.** Because the F-310 antenna is compact and the system uses only 3 LRU's, the F-310 solution provides for the smallest system installation weight when factoring in aircraft cabling, mounting hardware, and other aircraft level installation items.
- **High Latitude Operation.** The F-310 provides a large elevation window from -10 degrees to +90 degrees unlike competing solutions. This extra elevation capability is critical for aircraft operating at high latitudes, where satellites are low in the horizon (note: this is where majority of worldwide flights occur).

FLITESTREAM™ F-310



Contact Us Today (See How We Can Help You Get Connected!)

Astronics AeroSat Is Ready To Work With You To Create An Optimized Connectivity Solution!
Contact us today and see how we can help.

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***Why Settle For Slow Internet Speeds or Connectivity Outages
FliteStream Works Where Others Can't?***

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