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**AirSatOne: Authorized Sales and Support
Independent Inmarsat Class 4 Service Provider**

No airtime purchase from AirSatOne is required with the sale of this unit.
Customers may use any Class 4 UAV service provider.

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AVIATOR 210U

Connectivity for Unmanned
Air Vehicles

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Connectivity for Unmanned Air Vehicles



AVIATOR 210U, a revolutionary solution from Thales Aerospace Communications, redefines UAV satcom connectivity by integrating everything into one compact, lightweight box.

Weighting just 1.45kg, the AVIATOR 210U delivers Viasat Class 4 services, up to 200kbps data across the full Viasat coverage. Real time surveillance just got lighter!

Tactical UAVs depend upon lightweight components to maximise range, endurance and operational use. However, until now, the size, weight and power requirements of other Viasat satcom hardware made it impossible to take advantage of the higher speed connectivity from today's satellite networks on smaller UAVs.

Weight and size-optimised for small tactical UAVs

24CM

16CM

6.4CM

24CM

1.45 KILOS

200 KBPS

FEATURES

KEY BENEFITS

- Beyond Visual Line Of Sight (BVLOS) communications
- Real time control of aircraft over satcom
- Real time navigation with telemetry over satcom
- Real time health monitoring
- View near live video & imagery
- Dynamic aircraft re-routing

SPECIFICATION

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- Single Line Replaceable Unit solution
- Class 4 SwiftBroadband system offering full Viasat coverage down to 5° elevation
- Background data service up to 200kbps
- Streaming class services up to 200kbps with half HDR
- User class context control
- System BITE
- Part Number 677-A0232

INTERFACES TO AIRCRAFT

- DC Power (14 - 28VDC)
- Navigation input via RS-232 or Ethernet

FEATURES

- Weight: 1.45kg (nearest model capable of full coverage: 6.1 kg)
- Power: 28W (nearest model: 73W)
- Size: 1 box solution
- Sufficient bandwidth for flight control over full aircraft range and endurance
- Payload flexibility (due to size, weight and power savings)

USER INTERFACES

- 2 x Ethernet
- 2 x RS-232

MECHANICAL OVERVIEW

- Single box solution
- Weight 1.45kg
- Dimensions: 24 x 16 x 6,4cm
- Mid-flange for ground plane and heat management
- Micro-D connector interface
- Protected user-accessible USIM

The World's smallest, all-in-one satcom solution for UAVs



RELIABLE

Viasat's networks are renowned for their reliability with proven availability above 99.95%.



GLOBAL

Viasat L-band services (including Velaris and Vuale) are available globally except for extreme Polar regions.

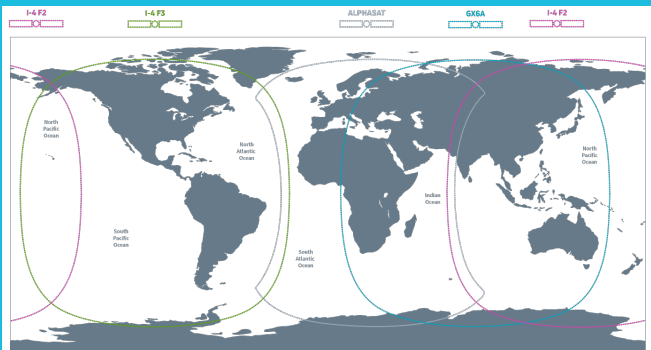


SECURE

Compatible with government grade encryption and secure communications standards, STU-IIIB, STE, TACLANE, KIV-7 and BRENT.

The AVIATOR 210U connects back to base via Viasat L-band services, providing a reliable command and control communications link beyond line of sight. It provides as well as a real time feed from on-board payload sensors, via a single channel 'always-on' data service up to 200kbps. Streaming class services are also available.

Extended range and endurance



Benefits



BEYOND LINE OF SIGHT

For true surveillance and monitoring, it is vital that operators get near real time visual feedback of the video captured. Previously, tactical UAVs had limited connectivity, meaning that all viewing and decision-making had to be within line of sight or after the airframe returned, by which time the data will often have lost its tactical or commercial value.



GREATER PAYLOAD FLEXIBILITY

A tactical UAV's combined weight has a large impact on its endurance and operational flexibility. By providing a BVLOS solution that is smaller and lighter than anything bandwidth comparable on the market, AVIATOR 210U not only improves the UAV's range but significantly expands its payload capability and thereby its commercial and strategic value.



ENHANCED AIRCRAFT CONTROL

With AVIATOR 210U, operators can send flight commands to the UAV in real time. By making immediate route adjustments as and when necessary, not only does this significantly enhance mission flexibility but it can help to protect the UAV and other airspace users should it need to avoid potential threats or return to base.

Receive time-critical data in near real time

