

AVIATOR 200

Compact – Lightweight – Economical



Full Features – Compact Size

The Thrane & Thrane AVIATOR 200 is the lightest, most compact airborne broadband solution on the market today. A perfect choice for smaller airframes or cost-conscious operators looking to add the convenience of in-flight broadband access. With reduced hardware and installation costs, the AVIATOR 200 is everything you need to stay connected no matter what you fly.

The Reliability You Need – Now More Economical Than Ever

No matter what your mission, operation or itinerary is the Thrane & Thrane AVIATOR 200 allows you to stay connected and productive with speeds up to 200 kbps. The system provides the proven Thrane & Thrane voice & data services plus a wide range of embedded features such as:

- Email with full attachments
 - Internet access
 - Smartphone connectivity
 - AMBE 2 Voice Channel (Standard Voice)
 - Built-in router for intelligent connectivity support and multiple user support
 - Built-in Ethernet switch for supporting numerous wired laptops and/or EFBs
 - Built-in wireless access point option for supporting numerous wireless laptops and/or Smartphones
- SwiftBroadband channel for simultaneous data and voice
 - Extremely compact and lightweight
 - VoIP connectivity

AVIATOR 200



Flexibility, Affordability & Reliability

Being the lightest, most compact broadband system available definitely has its advantages. The hardware itself is engineered for unprecedented flexibility of use. This reduced weight and size makes it ideal for smaller airframes or aircraft already equipped for special missions, but would benefit from the additional capability it delivers. Applications range from general aviation use to mission specific military needs. Plus, powerful options allow the user to tailor the system to their specific needs.

- Built-in Router
- Built-in WiFi access

Inmarsat Aeronautical Satellite Communications Services

Inmarsat is a global satellite communications company operating geostationary satellites to provide the most versatile and reliable satellite network in the world.

SwiftBroadband

The Thrane & Thrane AVIATOR 200 system is engineered to take advantage of the latest technologies like SwiftBroadband for increased reliability and connectivity. The SwiftBroadband Background Data and SwiftBroadband Low Cost Voice channel allows users to access a shared data channel and a compressed high quality voice channel at the same time.

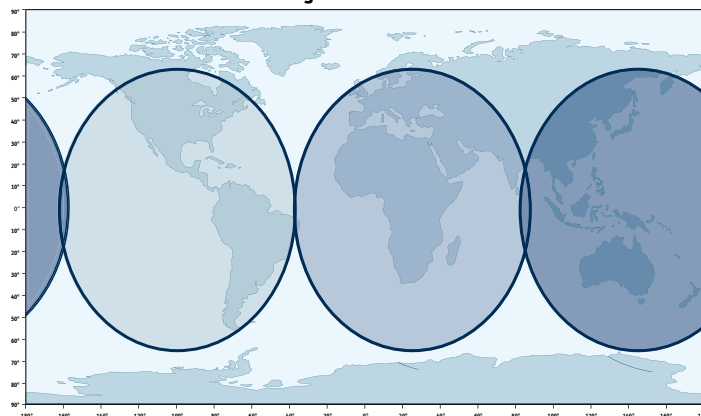
The AVIATOR 200 is an Inmarsat Class 15 (SB200) system, supporting:

- Single Channel SwiftBroadband
- Packet Switched Services
- Background IP up to 200 kbps
- Streaming IP at 8 kbps or 16 kbps
- Operating down to 20 degree satellite elevation

Smaller Antenna Means More Options

Previously, complete communications solutions have been limited to larger aircraft due to high initial investment and large, heavy antennas. These limitations are no longer an issue with the innovative AVIATOR 200. The system utilizes the TT-3002A Low Gain Jet Blade Antenna that further reduces weight and size concerns for smaller airframes, making broadband data and high quality voice services available to an even wider range of aircraft.

Inmarsat's SB200 Satellite Coverage





TT-5040A SwiftBroadband Unit (SBU)

Features

- IP packet or streaming SwiftBroadband data.
- Ethernet connectivity
- Built-in router with six Ethernet interfaces
- Built-in wireless access point
- Low weight and power consumption
- Compact 2 MCU size
- No forced cooling required
- Easy integration

Characteristics

TT-5040A SBU

Dimensions:	
(L x W x H):	12.62" x 7.62" x 2.25" (320.5 mm x 193.5 mm x 57.2 mm)
Mass:	6.2 lbs (2.8 kg)
Power:	28 V DC, 30 W typ. 106 W max.
Connectors:	Rear: ARINC 404A Front: RJ-45
Environmental:	Temperature: -25°C to +55°C Altitude: MSL to 55,000 ft
DO-160E string:	[(A1)(F1)X]CAB[SB2M]ExxxxxZ[AB]A[RB][ZC][RR]M[A3]33]XXAX



TT-5016A High Power Amplifier, Low Noise Amplifier and Diplexer (HLD)

Features

- Small size, low weight and low power Consumption
- Powered through SBU
 - no power wires to HLD required
- No forced cooling required

Characteristics

TT-5016A HLD

Dimensions:	8.98" x 7.87" x 1.97"
(L x W x H):	(228.0 mm x 200.0 mm x 50.0 mm)
Mass:	5.7 lbs (2.6 kg)
Environmental:	Temperature: -55 °C to +70 °C
Altitude:	MSL to 55,000 ft
DO-160E string:	[(A2)(F2)X]BBB[SCL]E[(Y)(W)]XXFXZXX[ZC][RR]M[A3]33]XXAX
Power:	Powered through SBU



TT-5040A-001 Configuration Module (CM)

Features

- Stores system configuration parameters
- Located at the rear of the SBU
- Contains the SIM card
- Configured through SBU web interface
- Contains phone book
- CM may be removed/ inserted for easy SBU exchange

Characteristics

TT-5040A-001 CM

Dimensions:	1.85" x 1.79" x 0.79"
(L x W x H):	(47.0 mm x 45.5 mm x 20.0 mm)
Mass:	0.15 lb (70 g)
Environmental:	Temperature: -25°C to +55°C Altitude: MSL to 55,000 ft
DO-160E string:	[(A1)(F1)X]CAB[SB2M]ExxxxxZ[AB]A[RB][ZC][RR]M[A3]33]XXAX

TT-5040A-008 AVIATOR 200 Key (LGA)

Features:

- Software key allowing system use with Low Gain Antenna

Characteristics

PN:	405040A-001
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TT-5040A-004 Wireless Antenna

Features

- Meet and exceed the requirements of IEEE 802.11a/b/g
- Multi-band antenna (802.11a/b/g)
- Low profile housing
- TNC Connector

Characteristics

TT-5040A-004 Wireless Antenna

Dimensions:	4.7 x 0.48 x 0.5"
(L x W x H):	(119.4 x 12.2 x 12.7 mm)
Mass:	.063 lbs (28 g)
DO-160D string:	[(A1X)CAB[(SC)(RC1)]XWXXXXC [AE]AZCTM[XXE1]XXA



TT-5624B AVIATOR Wireless Handset

Features

- Handset with large color display
- Access to basic configuration and system status
- Noise cancellation
- Speaker for hands-free operation
- Headset jack

Characteristics

TT-5624B AVIATOR Wireless Handset

Dimensions:	6.10 x 2.17 x 1.04"
(L x W x H):	(152.0 x 55.0 x 26.5 mm)
Mass:	0.39 lbs (175 g)
DO-160F string:	[A4X]CXB[SB2M]XXXXXXA[(AX) (BX)]A[RB][ZC][RS]M[XXXXX] [XXXX]XAX

Environmental: Temperature: -15 °C to +45 °C

TT-5626A AVIATOR Wireless Handset Cradle

Features

- Charges AVIATOR Wireless Handset
- 28 VDC

Characteristics

TT-5626A AVIATOR Wireless Handset Cradle

Dimensions:	6.97 x 2.73 x 2.13"
(L x W x H):	(177.0 x 60.3 x 54.0 mm)
Mass:	0.33 lbs (150 g)
DO-160F string:	[A4X]CXB[SB2M]XXXXXXA[(AX) (BX)]A[RB][ZC][RS]M[XXXXX] [XXXX]XAX

Environmental: Temperature: -15 °C to +45 °C



TT-5621B/TT-5622B Aux. Handset and Cradle

Features

- Auxiliary handset and cradle
- 600 Ohm ETSI TBR 21 interface
- Adjustable ringer
- 10 memory locations (speed dial)
- Available in black or white

Characteristics

TT-5621B Handset

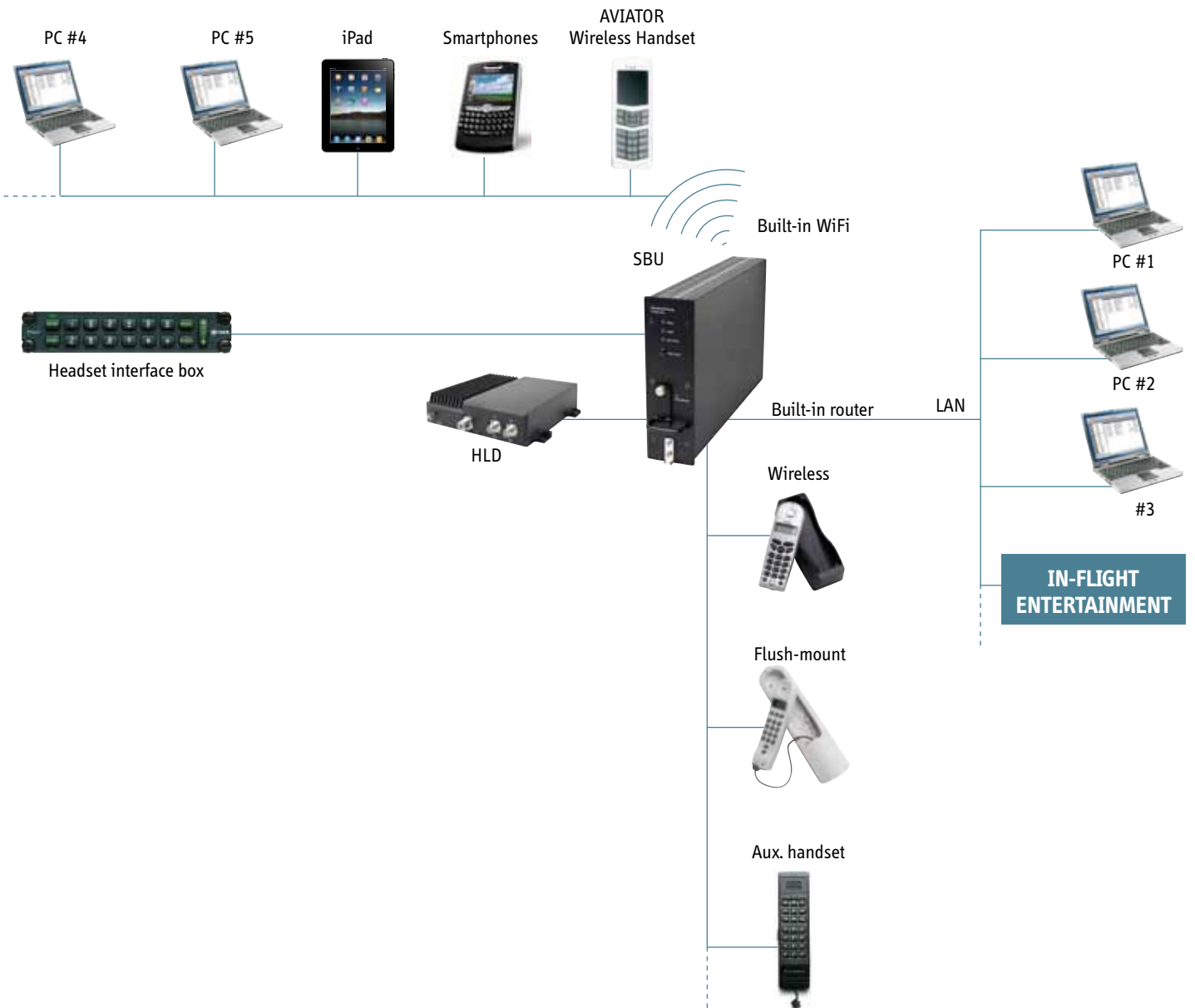
Dimensions:	7.87 x 2.05 x 1.24"
(L x W x H):	(200 x 52 x 31.5 mm)
Mass:	0.49 lbs (220 g)

TT-5622B Cradle

Dimensions:	6.3 x 2.4 x 1.12"
(L x W x H):	(160.5 x 61 x 28.4 mm)
Mass:	0.43 lbs (200 g)
DO-160D String:	[A1X]CAB[(SMB2)(SM)(UFF1)] XXXXXXAXXXB[RR]M[A2E3]XXA

Strong Foundation Means More Possibilities

The AVIATOR 200 system is built around the proven technology of the Thrane & Thrane SwiftBroadband Unit (SBU). Offering an optional built-in wireless access point, laptops, Smartphones and VoIP handsets are easily connected. Additionally, the built-in router option allows the easy connection of up to 6 laptops. And, with (2) two-wire connections available, users can connect standard or wireless handsets, headset interface boxes and much more. The detachable configuration modules contain all settings making it very easy to replace the High power amplifier, Low noise amplifier and Diplexer (HLD) or SwiftBroadband Unit (SBU).



THRANE & THRANE – THE BROADBAND EXPERTS

Thrane & Thrane is the world's leading manufacturer of equipment and systems for global mobile radio and satellite communication. Since its incorporation in 1981, the company has established a strong position within global mobile communication based on the Inmarsat system and today, Thrane & Thrane provides equipment for use in the air, at sea and on land.

Following years of experience of BGAN terminal development, Thrane & Thrane possesses key knowledge and technological understanding which is applied within aeronautical, maritime and land mobile segments. Having delivered the ground infrastructure (the Radio Access Network) for the I-4 satellites to run Inmarsat's BGAN services, Thrane & Thrane was also contracted to further develop the ground infrastructure for aeronautical, maritime and land vehicular services.

With an extensive history of providing satellite communication terminals to business, commercial and military aviation markets, Thrane & Thrane is well-positioned to develop solutions which fully harness the power of Inmarsat SwiftBroadband. Today, Thrane & Thrane offers a comprehensive SwiftBroadband portfolio under the AVIATOR brand, providing a solution to satisfy any aircraft requirement for size, specification or application.

Thrane & Thrane is the only aeronautical communications terminal supplier to deliver both aeronautical terminals and the ground infrastructure they operate on.

