

# AVIATOR 200

Single Channel SwiftBroadband with Low Gain Antenna

2013 Data Sheet

# COBHAM

The most important thing we build is trust



Satcom for aircraft of any size



Low profile, low gain antenna



Simultaneous SwiftBroadband voice and data services





# AVIATOR 200

## Single Channel SwiftBroadband with Low Gain Antenna



### Full Features – Compact Size

The Cobham 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.

### Flexible, Affordable and Reliable

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

### 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 a 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.

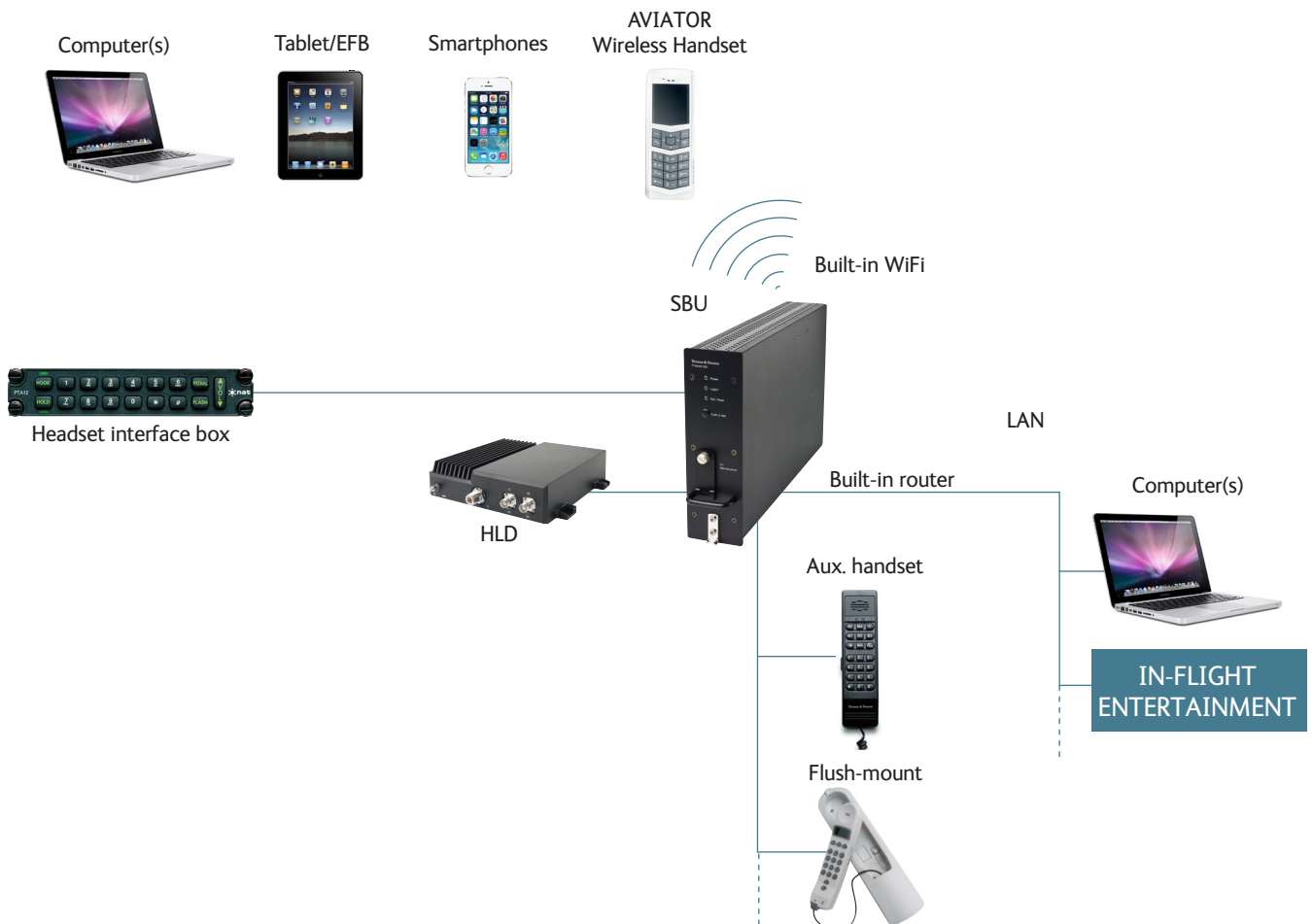
### The Reliability You Need – Now More Economical Than Ever

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

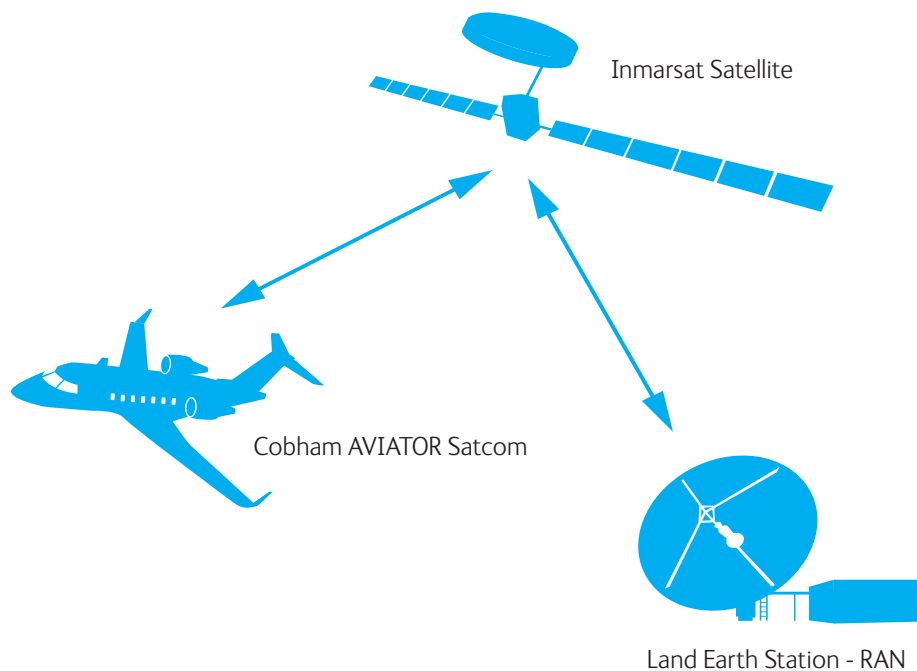
- Inmarsat SwiftBroadband channel for simultaneous data and voice
- Extremely compact and lightweight
- Email with attachments
- Internet access
- Smartphone and tablet connectivity
- Supports up to 3 simultaneous voice calls
- Built-in router for intelligent connectivity support and multiple user support
- Built-in ethernet switch for supporting numerous wired laptops and/or EFBs
- Built-in wireless access point option for supporting numerous wireless laptops, smartphones and/or tablets

## Strong Foundation Means More Possibilities

The AVIATOR 200 system is built around the proven technology of the Cobham SwiftBroadband Unit (SBU). Offering an optional built-in wireless access point, laptops, Smartphones, Tablets 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 combined High Power Amplifier, Low Noise Amplifier And Diplexer (HLD) or Swiftbroadband Unit (SBU).



*Cobham SATCOM has developed both the satcom systems as well as the network ground infrastructure.*



## Global Voice and Data with Inmarsat SwiftBroadband

SwiftBroadband is Inmarsat's latest satellite network with global coverage providing both voice and broadband data. It is the world's leading commercial mobile broadband satellite service.

With three satellites placed in geostationary orbit 36,000 kilometers (22,000 miles) above the Atlantic, Indian and Pacific Oceans respectively, they facilitate a reliable global coverage.

Combined with AVIATOR terminals this solution offers a superior connectivity to traditional phone networks and the internet in all phases of flight.

## SwiftBroadband 200

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 SwiftBroadband 200 (Class 15) system, supporting:

- Single channel SwiftBroadband
- Background IP up to 200 kbps
- Up to 3 simultaneous voice calls
- Streaming IP at connection rates of 8 kbps or 16 kbps
- Packet switched services



*SwiftBroadband Unit (SBU)*

*High Power Amplifier, Low Noise Amplifier and Diplexer (HLD)*

*Configuration Module (CM)*

**Features**

- Up to 3 simultaneous voice calls
- 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
- FAA PMA

**Specifications**

<b>Part Number</b>	405040A
<b>Dimensions</b>	Total L / W / H 320.5 / 193.5 / 57.2 mm 12.62 / 7.62 / 2.25 in
<b>Mass</b>	2.8 kg / 6.2 lbs
<b>Power</b>	28 V DC, 30 W typ. Max 83 W
<b>Altitude</b>	MSL to 55,000 ft
<b>Temperature</b>	-25 C to +55 C
<b>Connectors</b>	Rear ARINC 404A Front RJ-45

**Environmental Qualification**

DO-160E  
[(A1)(F1)X]CAB[SB2M]ExxxxxZ[AB]A[RB][ZC][RR]M[A3J33]XXAX

**Features**

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

**Specifications**

<b>Part Number</b>	405016A
<b>Dimensions</b>	Total L / W / H 228 / 200 / 50 mm 8.98 / 7.87 / 1.97 in
<b>Mass</b>	2.6 kg / 5.7 lbs
<b>Power</b>	Powered through SBU
<b>Altitude</b>	MSL to 55,000 ft
<b>Temperature</b>	-55 C to +70 C

**Environmental Qualification**

DO-160E  
[(A2)(F2)X]BBB[SCL]E[(Y)(W)]XXFXZXXX[ZC][RR]M[A3J33]XXAX

**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 or inserted for easy SBU exchange
- FAA PMA

**Specifications**

<b>Part Number</b>	405040A-001
<b>Dimensions</b>	Total L / W / H 47 / 45.5 / 20 mm 1.85 / 1.79 / 0.79 in
<b>Mass</b>	0.07 kg / 0.15 lbs
<b>Altitude</b>	MSL to 55,000 ft
<b>Temperature</b>	-25 C to +55 C

**Environmental Qualification**

DO-160E  
[(A1)(F1)X]CAB[SB2M]ExxxxxZ[AB]A[RB][ZC][RR]M[A3J33]XXAX

**AVIATOR 200 Key (LGA)**

Software key allowing system use with Low Gain Antenna (LGA)

**Part Number** 405040A-008

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## Cobham SATCOM - The Powerhouse of Airborne Satcom

Cobham SATCOM is the largest manufacturer of Inmarsat antennas, terminals and land earth station RAN (Radio Access Network) equipment. Cobham SATCOM uses state-of-the-art technologies to design affordable, reliable and high performance satellite communication systems.

Cobham SATCOM

- Has a global footprint with offices in USA, Europe, Africa and Asia
- Has 20 years of experience developing satellite communication technology for the aviation industry, for cockpit, aircraft operational and cabin services
- Has more than 3500 Aeronautical systems delivered and installed (+80.000 BGAN Terminals)
- Supplies terminals for land, maritime and aeronautical markets and also the network and ground stations for mobile satellite services
- Designs the full technology stack from modulation to radio core technology
- Cobham SATCOM has developed both the satcom systems as well as the network ground infrastructure

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