AVIATOR S Series

Inmarsat SwiftBroadband systems for the connected aircraft

Data Sheet

The most important thing we build is trust

The Connected Aircraft

AVIATOR S Series

SwiftBroadband products for the connected aircraft

The revolutionary, exceptionally compact HELGA (HLD and Enhanced LGA) antenna reduces the required number of LRUs on the aircraft from 4 to 2.

The data connected aircraft

It is the expectation of Cobham SATCOM that operators of aircraft ultimately wish to have their aircraft connected with an efficient data connection to achieve operation maintenance and passenger experience efficiencies. We build our product around these premises.

The ground breaking AVIATOR S Series from Cobham will provide satcom solutions for the increasing requirement for data communication between an airline and its fleet of aircraft for the purpose of Air Traffic Control (ATC), Aircraft Operation Control (AOC) and Passenger Information and Entertainment Services (PIES).

AVIATOR S Series - Complete satcom solutions

The Aviator S series consist of a family of satcom systems, which are **smaller, lighter** and more **cost effective** than current satcom systems providing the combination of **IP and ACARS data.**

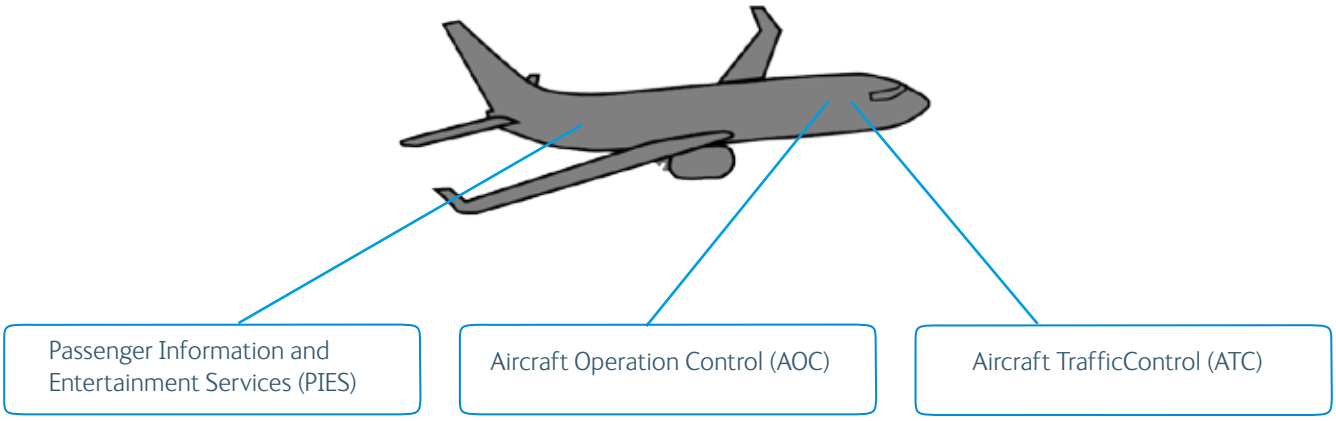
The Aviator S series is specifically built to meet the future connectivity needs of modern commercial airline aircrafts. They offer the versatility of ACARS data services, IP data and multiple voice capabilities.

The new C-SDU (Compact Satellite Data Unit) allows **secure data** communication with domain segregation architecture according to industry standards developed under ARINC 781 Attachment 8 workgroup.

The ACARS and IP data pipes allow network integration with a portfolio of data hosting and transmitting components on the aircraft such as the **cockpit, EFB devices, onboard maintenance computers** and devices used by the crew to service passengers.

The system will meet the requirement for **FANS 1/A** operation and satisfy expected requirements for **NextGen** and **Link2000+**. For information about product certification plans and availability schedules please contact Cobham SATCOM.

The AVIATOR S Series allows for aircraft domain seperation.



Note: All specifications are preliminary and are subject to change without notice.

Innovative and compact design

The Aviator S Series will range from the ultra-compact AVIATOR 200S, over the AVIATOR 600S to the super versatile AVIATOR 700S.

The systems consist of a subset of the following 3components:

- **HELGA (HLD and Enhanced Low Gain Antenna)**
- **C-SDU (Compact Satellite Data Unit)**
- **MCHPA (Multi-Channel HPA)**

The new system components can be configured on the aircraft with any of the current antenna systems from Cobham currently certified on most air transport aircraft models.

HELGA (HLD & Enhanced Low Gain Antenna)

- Diplexer, Low Noise Amplifier (DLNA) and High Power Amplifier (HPA) built into the antenna
- Complies with ARINC 741 LGA (Low Gain Antenna) mounting footprint requirements
- Unique 4th generation phased array technology

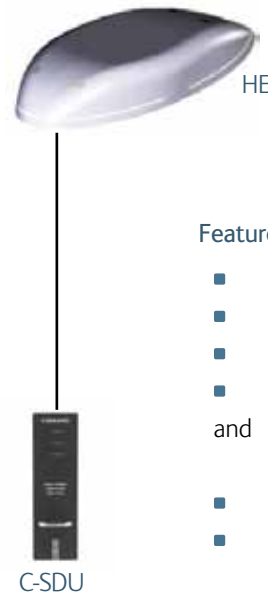
C-SDU (Compact Satellite Data Unit)

- 2 MCU LRU with an ARINC 600 connector
- Supports up to two SwiftBroadband channels for ACARS data, IP data and multiple voice capabilities according to ARINC 781 Attachment 7
- Provides aircraft network segregation

MCHPA (Multi-Channel HPA)

- 2MCU LRU with an ARINC 600 connector
- Highly linear HPA for multiple SwiftBroadband channels
- Allows use of all Cobham SATCOM's HGA and IGA antennas

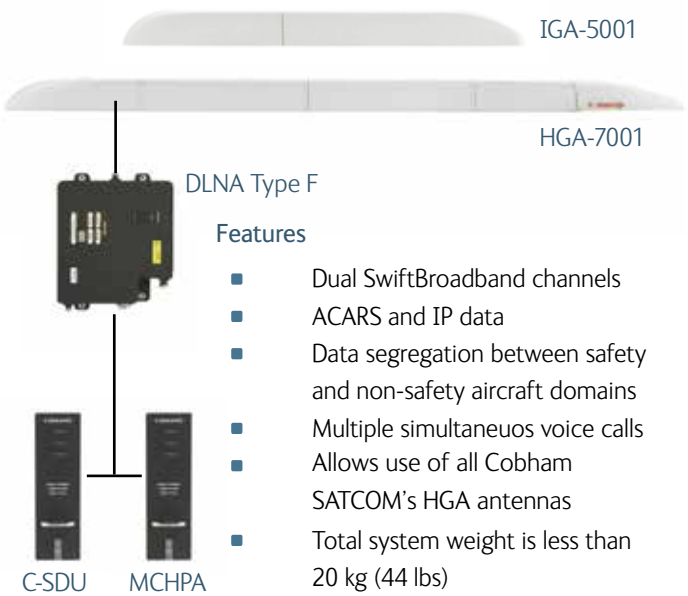
AVIATOR 200S Configuration:



Features

- Two box solution
- Single SwiftBroadband channel
- ACARS and IP data
- Data segregation between safety and non-safety aircraft domains
- Multiple simultaneuos voice calls
- Total system weight is less than 6 kg (13.2 lbs)

AVIATOR 700S Configuration:



Features

- Dual SwiftBroadband channels
- ACARS and IP data
- Data segregation between safety and non-safety aircraft domains
- Multiple simultaneuos voice calls
- Allows use of all Cobham SATCOM's HGA antennas
- Total system weight is less than 20 kg (44 lbs)