



ARYCOM

SATELLITE COMMUNICATIONS

inmarsat

The mobile satellite company



Why SwiftBroadband?

- 1 'Always on' data connection
- 2 Scalable, cost-effective bandwidth using standard IP or HDR services
- 3 Enables cockpit and cabin services simultaneously
- 4 Small and lightweight equipment for all sizes of aircraft
- 5 Accessible worldwide, except in the extreme polar regions

SwiftBroadband

Global data and voice connectivity

SwiftBroadband is the most widely used high-speed data solution in the aviation industry. It provides 'always-on' data connection virtually anywhere in the world.

Our IP-based solution delivers global voice and high-speed data simultaneously through a single installation on the aircraft, with a range of antenna options to suit varying aircraft sizes and needs.

SwiftBroadband delivers both cockpit and cabin services – providing connectivity for the whole aircraft across the most reliable commercial satellite communications network in the world.

Data

The standard IP service provides up to 432 Kbps (Kilobits per second) per channel to the aircraft. With the introduction of the SwiftBroadband High Data Rate (HDR) service, customers can expect to achieve speeds of up to 650 Kbps per channel.



Voice

SwiftBroadband provides a high-quality voice service with the full functionality of terrestrial fixed phone services, as well as mobile phone services. Each SwiftBroadband channel provides a voice channel to the aircraft. Using multi-voice functionality, the technology will provide an additional three standard multi-voice or up to eight additional multi-voice lines.

All voice services can be used in parallel with a combination of data services.

New developments

We are constantly enhancing our offering, both technically and commercially, to meet customers' evolving needs, including:

- > Development of improved safety communications with SwiftBroadband-Safety
- > Streaming services now available through High Data Rate (HDR) connectivity for the helicopter market
- > Continuous data throughput and hardware improvements to enhance efficiency, reduce costs and increase airline capabilities

Our world-leading solutions continue to deliver huge benefits for airlines and passengers – both now and into the future.

System features

All SwiftBroadband systems allow simultaneous voice and IP data communication over low profile antennas that are significantly smaller and lighter than any other systems on the market:

> High gain antenna

- Four channels delivering up to 432 Kbps each
- Full channel streaming with X-Stream, up to 650 Kbps streaming with SwiftBroadband HDR
- Dynamic IP streaming 8, 16, 32, 64 or 128 Kbps
- Circuit-switched voice and multi-voice VoIP (Voice over IP)
- Stand-alone or simultaneous operation with Inmarsat Aero H+ services
- Compliant with ARINC 781

> Intermediate gain antenna

- Four channels up to 332 Kbps each
- Dynamic IP streaming 8, 16, 32, 64 or 128 Kbps
- HDR available
- Circuit-switched voice and multi-voice VoIP
- Compliant with ARINC 781

> SwiftBroadband 200

- Two unit installation available; antenna and SDU
- Low gain blade or small phased array antenna
- Single channel of up to 200 Kbps
- Dynamic IP streaming 8 or 16 Kbps
- Low Data Rate waveform based on HDR technology (enabling robust streaming operations on helicopters)
- Circuit-switched voice and up to three multi-voice VoIP
- Stand-alone system
- Small and compact avionics

Requirements

- > SwiftBroadband avionics
- > An aircraft antenna and related equipment capable of receiving SwiftBroadband
- > An agreement with a SwiftBroadband service provider or distribution partner

For new aircraft, airframe manufacturers can advise if SwiftBroadband avionics are an option. For existing aircraft, please consult SwiftBroadband avionics manufacturers on recommended upgrades.

Secure communications

SwiftBroadband also supports high-assurance applications for government and military – further details on request.

Applications

SwiftBroadband supports a wide range of cockpit and cabin applications:

Cockpit

- > Safety services – ACARS, ADS, CPDLC
- > Voice communications
- > Prioritised IP data connection supporting Electronic Flight Bag, airline operations, flight plan update, and weather and chart updates

Cabin

- > Wi-Fi or wired connectivity
- > In-seat and GSM mobile phone, VoIP and text messaging
- > Email, intranet, Internet and instant messaging
- > Secure VPN access
- > Video conferencing
- > In-flight entertainment content and news updates

Possible operational applications

- > Aircraft performance monitoring and fault reporting for major systems
- > General operational planning
- > Scheduling and route planning
- > Aircraft tracking
- > Crew reporting and general administration
- > CRM/FFP



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