



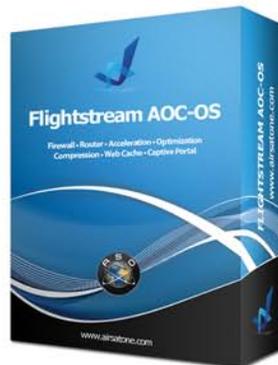
# Flightstream AOC-OS

## Full Featured Embedded AvSat Router Solution For The Aviation Industry

The Flightstream AOC-OS is an embedded software solution available to manufacturers of router/Wi-Fi devices designed for providing a connection between passengers and satellite communications transceivers and accommodates multiple satellite systems such as Inmarsat SwiftBroadband, Iridium Open Port, Globalstar, Thuraya, VSAT and other IP based services.

The AOC-OS solution works on most i386 platforms with 2 or more NIC adapters and is available through direct licensing.

The Flightstream AOC-OS provides all the features of even the most advanced routers in addition to other critical features which greatly enhance the end-user's satellite internet experience, such as acceleration, optimization and compression, as well as providing a captive portal billing solution for operators that have a need to charge for individual internet access.



The Flightstream AOC-OS uses web caching to save a copy of all visited web content to the router's hard disk. If a passenger requests content which has already been downloaded, the Flightstream AOC-OS equipped router will deliver the content directly from its web cache instead of requesting the data on the internet a second time, thereby reducing network traffic and improving access times.

The Flightstream AOC-OS also reduces network traffic and data usage by using a ground server to compress the requested data before forwarding it the end user. Our lossless compression algorithms identify statistical redundancy in the requested data, and then reformats the data stream on the fly to deliver the same data with a much smaller footprint. The Flightstream AOC-OS can also perform lossy compression on the images your web browser displays when surfing the web, which degrades the image quality to provide up to 90% in data usage savings for image downloads. When using the maximum compression settings the Flightstream AOC-OS can also block advertisements and remove large background images from the requested webpage.

The captive portal option on the Flightstream AOC-OS, provides a "Pay on Board" billing solution just like a hotel or coffee shop. This option allows the user to pay via credit card to activate the router's internet connection. AirSatOne's billing system allows the operator to set prices for internet access. The operator can choose to pass along the cost of satellite airtime or to mark up the cost of airtime creating an additional revenue source.

AirSatOne's Flightstream AOC-OS is designed to work with aviation specific satellite communications systems. The AOC-OS features a web-based GUI, which can be customized for the Avionics OEM, Airframe OEM or the end-user. AirSatOne provides 24/7 support for the Flightstream AOC-OS.

- + Reduce airtime data usage by up to 80% with best-in-class compression, optimization & acceleration techniques.
- + Web cache eliminates redundant http requests from using your precious bandwidth.
- + Captive Portal Wi-Fi allows the billing of passengers for airtime.
- + Wide array of firewall and router features include: failover, load-balancing, QoS, port-forwarding, NAT scheduling, traffic shaping & more.
- + Capable of working with any service provider.



# Specifications

## Features

**Web Browsing and Acceleration:** Caching and Compression

**Prepaid Internet Access (Captive Portal):** Prepaid internet access by megabyte or time.

**Firewall:** Completely configurable: Blocking by source or destination IP address, port forwarding, plus Inbound NAT Scheduling

**Content Filtering:** Programmable whitelist/blacklist access to web content by category, URL

**Traffic Shaping:** Programmable network prioritization and optimization (QoS)

**Virtual LAN (VLAN):** Allows multiple LANs with external VLAN switches

**Remote Management:** Remote Management with VPN

**Least-cost Routing:** Preferential Port Usage

**Failover & Load Balancing:** Simple Failover and Load Balancing (accommodate multiple satellite systems)

**Web Administration:** Easily configurable via intuitive web browser interface

**Console Administration:** Console administration access.

## Recommended Hardware

Platform: i386 architecture  
CPU: 700 MHz or greater  
Memory: 256 MB or greater  
Network: 2 or more network adapters  
Wifi Adapter: Optional

## Supported Communications Systems

Inmarsat Swiftbroadband  
Iridium OpenPort  
Globalstar  
Thuraya IP  
VSAT Ku-Band  
any other IP-based service

## Contact / Ordering Information

Contact AirSatOne today for more information on the Flightstream AOC-OS.

- + Call us: 302-327-9999
- + Email us: [sales@airsatone.com](mailto:sales@airsatone.com)
- + Visit us: [airsatone.com](http://airsatone.com)

## How it works

