Take off with...
Thuraya Aero

Thuraya Aero

Your eyes
in the sky

Thuraya Aero enables in-flight connections for internet access, voice calls, text messaging, high-speed data applications such as video and audio conferencing, large file transfer (e.g. surveillance videos), Voice over IP and much more.

Thuraya Aero is powered by a partnership between Thuraya Telecommunication Company and the SCOTTY Group accounting for more than 30 years of experience.

Integrated with the Thuraya satellite network, Aero communication requirements synchronize perfectly with L-band services. Applications such as SAR (Search and Rescue), ISR (Intelligence, Surveillance and Reconnaissance), telemedicine, military operations, office-in-the-sky and border surveillance require real time airborne data. Thuraya Aero provides an exciting and attractive alternative to support these high-end services. It is suitable for fixed wing and rotary wing aircraft.

Product Features

Ideal for ISR, SAR, disaster relief and beyond line of sight operations

Thuraya Aero is particularly suitable for ISR & SAR aircraft and other air platforms. Thuraya's L-band satellite technology is the best choice for airborne platforms flying at medium or low levels because transmission is unaffected by existing weather conditions.

Ideal for business aviation

Thuraya Aero provides affordable VIP/Executive in-flight connectivity. During flight, executives can talk on their own smartphone; send and receive messages; access email and internet with any mobile device and hold video conferences.

Easy installation

Thuraya Aero offers a simple interface to onboard sensors and equipment. It can be easily installed on any plane. Using the Cobham High Gain Antenna (HGA) and Intermediate Gain Antenna (IGA), Supplemental Type Certificate (STC) may only require a delta certification if a swift broadband system STC has been obtained. The whole basic system has only three compact LRU's making installation simple.

Solid and dependable

The hardware and software components to communicate with the satellite systems of Thuraya are developed in partnership with well-known suppliers for aerospace solutions, namely Cobham, SCOTTY and SRT.

High-speed streaming capabilities

Designed to operate at IP broadband speeds of up to 444kbps in single channel configuration, with a dual channel system also available. The Satellite Data Unit is configured for dual channel operation with upgrade via a software key.
Thuraya Aero also comes with a built-in video transmission capability that offers real time video streaming using on board HD camera systems.
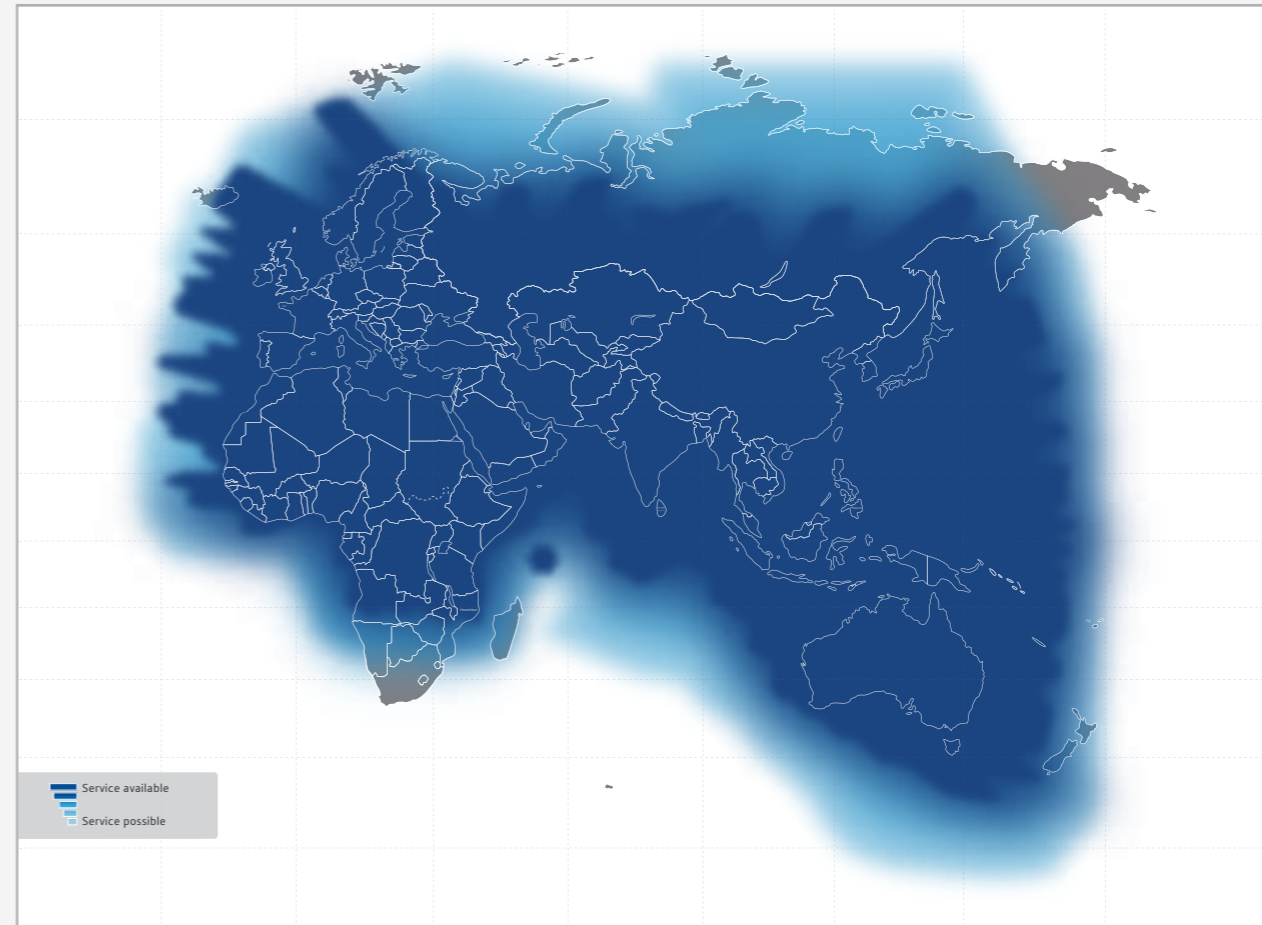
Runs on a reliable network

Thuraya's reliable and uninterrupted satellite network enables users to stay connected via satellite mode anywhere under its coverage area across Europe, Africa, Asia and Australia.

Thuraya's coverage area

Thuraya's reliable and uninterrupted satellite network allows you to stay connected via satellite mode anywhere across its coverage area over Europe, Africa, Asia and Australia. Wherever your mission or business operations take you, Thuraya Aero provides the reassurance of constant, reliable connectivity even in the most challenging environments and remote locations.

Thuraya Aero, connects you everywhere.

Service available
Service possible

This map represents Thuraya expectations of coverage. For further information, please contact Thuraya Customer Care at customer.care@thuraya.com or visit www.thuraya.com

Technical specifications

MODEM FUNCTION	
Services	IP Data, Circuit Switched Voice
Streaming	up to 384kbps / channel (symmetric & assymetric options)
Standard	up to 444kbps / channel
SIM card	Single or Dual (SDU activation via license key)
Channels	Single or Dual (SDU activation via license key)
Channel bundling	Yes (necessary purchase of license key for an update)
Video capability	Yes (necessary purchase of license key for an update)

SATELLITE DATA UNIT	TH-SDU-FL (flange mount)	TH-SDU-AR (ARINC 600 2MCU size)
Width	194mm	58mm
Height	89mm	200mm
Length	343mm	340mm
Weight	4.4kg	4.3kg
Unit interfaces	2x 10/100 BaseT Ethernet, 1x 10/100 BaseT Ethernet (ARINC), SDI (in), SDI (out), 2x USB, 2x Audio In & 2 x Audio Out, RS-422/RS-232, 2x IRS/AHRS/GNSS (A429)	

Technical specifications

AMPLIFIER & DIPLEXER	TH-HLD (for single channel)	TH-HPA (for dual channel)	TH-DLNA (for dual channel)
Width	190mm	61mm	187mm
Height	60mm	194mm	48mm
Length	197mm	344mm	281mm
Mass	2.4kg	2.4kg	2.5kg

ANTENNA	TH-HGA-6000	TH-HGA-6500	TH-IGA-5001
Platform type	For fixed-wing	for rotary-wing	For fixed-wing
Steering type	Mechanical	Mechanical	Electronic
Diameter	256mm	256mm	581mm x 175mm (L x W)
Height	246mm	258mm (with adapter)	49mm
Mass	1.8kg	3.8kg	3.5kg