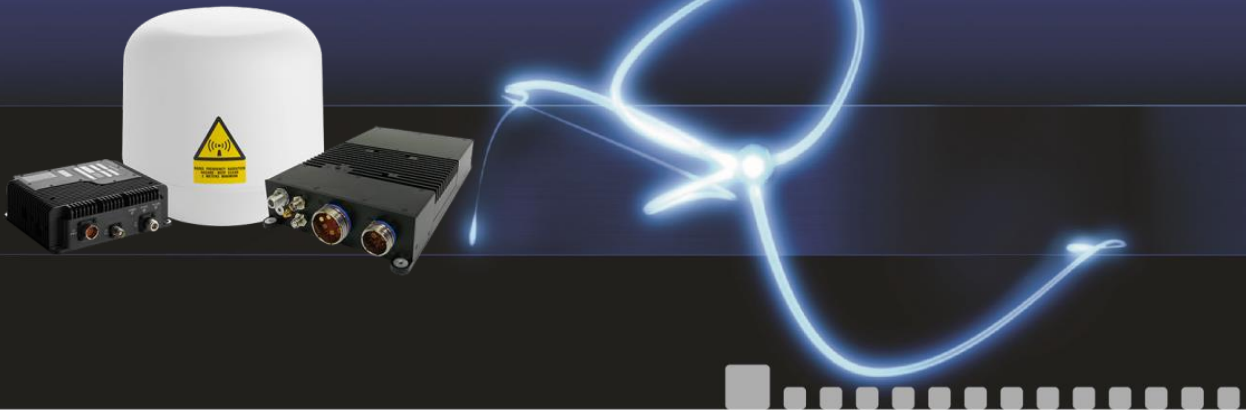




SDR Fixed - FLANGE

Powering Next-Gen Airborne Satellite Communication



Components

TH-SDU FLANGE

Cutting-edge satellite data unit for fixed and rotary wing aircrafts

TH-HGA 6000

High Gain Antenna control for steady in-flight communication

TH-HLD

Integrating powerful components for steady in-flight communication

THE AERO SYSTEM

TH-SDU FLANGE is an SDU with a flange mount component, designed for small ISR fixed-wing platforms and all rotary platforms. TH-SDU-FL is the first SDU version up for release and meets the strictest qualification standards for aviation communication components in both fixed- and rotary wing aircrafts. In later releases, TH-SDU-FL will deliver added capabilities for embedded data encryption, and 2-channel configuration with additional slot for 2nd VIP Turbo Aero or single-channel configuration with additional slot for HD580 video streaming module.



TH-HGA-6000 antenna consists of a soft dust cover for use under a radome, mechanical antenna steering based on a dual Helix coil system and an L-band RF interface, for connection with an ARINC 741 compliant DLNA or HLD unit.

This version of the Cobham High Gain Antenna (HGA) system is designed for fixed-wing aircrafts like transport airplanes or business jets. TH-HGA-6000 is used under a radome in the tailfin or the fuselage of small airplanes. As the antenna does not require a metal surface mounting-base, it is ideal for use on modern 'carbon fiber' aircraft bodies.

The antenna system comes with an embedded beam steering unit, allowing antenna control directly through an ARINC 429 interface. Alternatively, the antenna also offers a coaxial interface for control through an external beam steering unit.

INSTALLING AERO

TH-HLD is a High Power/Low Noise Amplifier, built to:

- Connect the SDU with the antenna system
- Reduce overall box-count, system weight and complexity
- Support applications like phone calls, email, web browsing and VPN

Designed as a single component or broadband single-channel system, the High Power/Low Noise Amplifier (TH-HLD) interconnects Aero's SDU with the high gain antenna. In transmit direction, the HLD acts as a High Power Amplifier to provide the required EIRP to the Thuraya satellite. Similarly, in receive mode, the HLD acts as a highly sensitive Low Noise Amplifier to amplify the receive signal from the antenna system.