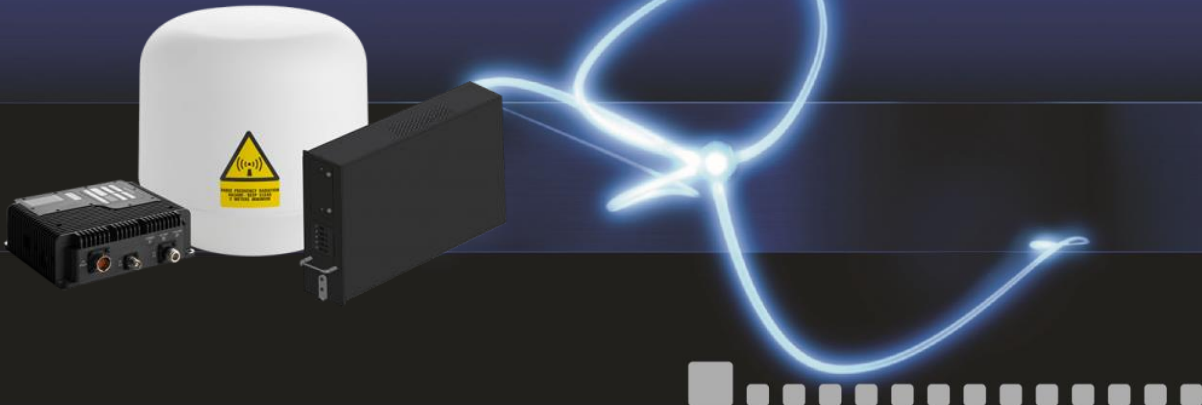




SDR Fixed - ARINC

Enabling Powerful In-flight Connectivity



Components

TH-ARINC SDU

Robust satellite data unit designed for fixed-wing aircraft

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

With **SDR ARINC**, you can manage all mission and flight deck communication systems onboard your aircraft, now and in the future.

TH-ARINC SDU is a standard SDU in ARINC 600 format (2MCU) for fixed-wing aircraft. It will be the second SDU version made available and will come with a VIP Turbo Aero for aircraft installation with existing avionics equipment installations. Unlike its flange mount counterpart, SDU-ARINC does not offer effective sand and dust sustainability. In later releases, TH-SDU-ARINC will deliver added capabilities for embedded data encryption and 2-channel TH-SDU-AR with an additional slot for 2nd VIP Turbo Aero.

TH-ARINC SDU guarantees vibration and shock durability (DO-160G - Cat. S (M,L,B) and channels external forced airflow (vertical) through the ARINC unit.



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.

INSTALLING AERO

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.