



HDR HELI

Robust and Reliable Airborne Satcom Systems



Components

TH-SDU FLANGE

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

TH-HGA 6500

Powerful antenna control for steady in-flight communication

TH-HPA

Amplifying transmit RF signals to enable aircraft-satellite communication

TH-DLNA

Enabling duplex satellite communication while providing a low noise amplifier

THE AERO SYSTEM

HDR Heli enhances in-flight performance with affordable access to increased high speed data.

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-6500 is a version of the Cobham High Gain Antenna (HGA) system designed for rotary-wing aircrafts. Embedded in a hardened radome, TH-HGA-6500 is ruggedized for maximum airspeed (240 knots) and can handle the most stringent vibrations on helicopter airframes. The antenna also comes with an L-band RF interface, for connection with an ARINC 741 compliant DLNA or HLD unit.

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

INSTALLING AERO

TH-HPA is a linear, temperature regulated, RF (Radio Frequency) power amplifier. It amplifies the transmit RF signal generated by the SDU to correct the power level in order to make communication with the satellite possible. The amplified signal is then sent to the antenna via DLNA. Secondary functions of the HPA include providing +28 VDC power to the antenna via the SDU and monitoring the DLNA BITE. The HPA utilizes forced air cooling and is equipped with an ARINC 600 port.

Length: 344 mm

Width: 61 mm

Height: 194 mm

Weight: 4,0 kg

TH-DLNA is a three-port device that is installed as part of a full-duplex satellite communication system. Its main purpose is to combine signals received from the High Gain Antenna and split transmit signals from the SDU. The DLNA also provides a low noise Amplifier to amplify the signals received from the satellite. Further significant function of the device is that it blankets system generated disruptive noise, harmonics and inter-modulation signals to ensure impact free inter-operation with other systems. The device is equipped with an ARINC 781 port.

Length: 281 mm

Width: 187 mm

Height: 48 mm

Weight: 2.6 kg