

HGA-6000

Inmarsat Satcom High Gain Antenna

COBHAM

Data Sheet

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Description

The HGA-6000 is the smallest mechanically steered Aero H/H+, Swift64 & SwiftBroadband Satcom Antenna. Specifically designed for mounting under the tail radome of an aircraft, the HGA-6000 is the first antenna of this type to accept steering commands directly from any ARINC 741 compatible Satellite Data Unit. This eliminates the need to install a separate Antenna Control Unit (ACU) or Beam Steering Unit (BSU), reducing system box count, and improving empennage weight distribution and installation simplicity.

Features

- Smallest swept volume available for a mechanically steered high gain antenna
- Higher gain than single helix antenna designs
- Excess gain can be used for longer RF cable runs between antenna and DLNA
- Integral Beam Steering Unit with ARINC 429 interface reduces overall box count
- Lightest High Gain Antenna available on the market

Technical Specifications

Physical

Length: 256 mm (10")
Width: 256 mm (10")
Height: 247 mm (9.7")
Weight: 1.8 kg (3.96 lbs)

Interfaces

RF: TNC Male
Control: Multi-pin (MS3476W16-26P)
MXC Female
Power: 28 Vdc (nominal) at 800 mA

Qualification

DO 160D: [E1]XAB[BCE][R(E,E1)S(L,M)]EWXXFXZ
[A(WF)B]A[A(WF)B]C[WW]H[A3E3]
XBA

Inmarsat approvals

Service coverage: 89.7%

Type Approval: 0304002RH.A01
07 April 2003 &
AHCH01
26 October 2005

SBB assessment: Multichannel 7th Order PIM
AHCH01
18 September 2008

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