

HGA-6500

Inmarsat Satcom High Gain Antenna

COBHAM

Data Sheet

The most important thing we build is trust

Description

The HGA-6500 is a ruggedized mechanically steered Aero H/H', Swift64 & SwiftBroadband Satcom Antenna. Designed for mounting under the tail radome of an aircraft, or externally with an adaptor, the HGA-6500 is the first antenna of this type to accept steering commands directly from any ARINC 741 compatible Satcom system. This eliminates the need to install a separate Antenna Control Unit (ACU) or Beam Steering Unit (BSU), reducing system box count, which in turn improves 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
- Ruggedized and qualified for helicopter installation
- Externally mountable with adaptor, but no additional radome

Technical Specifications

Physical

	Stand-Alone	With Adaptor
Length	: 254 mm (10")	334 mm (13.13")
Width	: 254 mm (10")	290 mm (11.42")
Height	: 246 mm (9.86")	258 mm (10.16")
Weight	: 1.9 kg (4.2 lbs)	3.5 kg (7.7 lbs)

Interfaces

RF:	TNC Male (<i>Stand-Alone + Adaptor</i>)
Control:	Multi-pin (<i>Stand-Alone</i>) or MXC Female (<i>Stand-Alone</i>) ARINC-741(<i>Adaptor</i>) or SMA Female (<i>Adaptor</i>)
Power:	28 Vdc (nominal) at 800 mA

Qualification

Stand-Alone

DO 160E: [E1]XABE[R(EE1)S(LM)U(G)]EXXDFX
ZAAR[CC][WW]H[A3E3X]3BAX

With Adaptor

DO 160E: [E1]XABE[R(EE1)S(LM)U(G)]ERFDFS
ZAAR[CC][WW]H[A3E3X]3BAX

Inmarsat approvals

Service coverage: 89.7%

Type Approval: AHCH01
26 October 2005

SBB Assessment: Multichannel 7th Order PIM
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