

AVIATOR HGA-6500

Inmarsat Satcom High Gain Antenna

COBHAM

Data Sheet

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Description

The HGA-6500 is a ruggedized mechanically steered Aero H/H+, Swift64 & SwiftBroadband Satcom Antenna. Derived from the successful HGA-6000, the HGA-6500 is specifically designed for external mount on helicopters and slower flying aircraft. The HGA-6500 accepts steering commands directly from any ARINC 741 compatible 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 Steeing Unit with ARINC 429 interface reduces overall box count
- Ruggedized and qualified for helicopter installation
- Externally mountable with fairing. No additional radome required
- ARINC 741/781 compatible

Technical Specifications

Physical

	Stand-Alone	With Adaptor
Length:	256 mm (10")	334mm (13.13")
Width:	256 mm (10")	290mm (11.42")
Height:	247mm (9.70") (10.16")	258mm
Weight:	2.1 kg (4.6lbs) (7.7lbs)	3.5 kg

Interfaces

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

Qualification

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

With Adaptor
DO 160E: [E1]XABE[R(E)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
AHCH01
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