

AMT-700

Inmarsat High Gain Antenna

The eNfusion® AMT-700 is a complete ARINC 781 High Gain Antenna (HGA). The antenna is used to receive and transmit voice and data from aircraft via the Inmarsat satellite network, and supports multi-channel SwiftBroadband (Class 6 services).

Form Factor

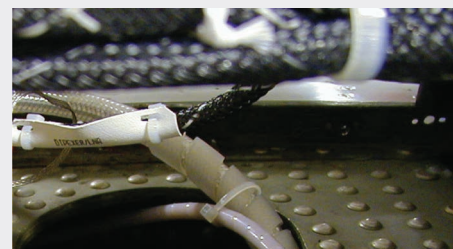
The AMT-700 is a mechanically steered Inmarsat antenna that meets ARINC 781 standards. It is made up of only two LRUs: an antenna unit and a diplexer/low noise amplifier. The antenna is lightweight (4.3 lb.) and has an integrated ACU in order to provide greater flexibility for installation.

The antenna's technology and design (U.S. patent pending) result in the highest gain of any Inmarsat mechanical high gain antenna - achieving greater than 13.5dBic over 100 percent of the Inmarsat coverage volume.

PART NUMBERS	
AMT-700 Subsystem Kit	1428-K-0001-02
High Gain Antenna (integral ACU)	1428-A-0010-02
DLNA, ARINC 781 Type F	1242-A-0006



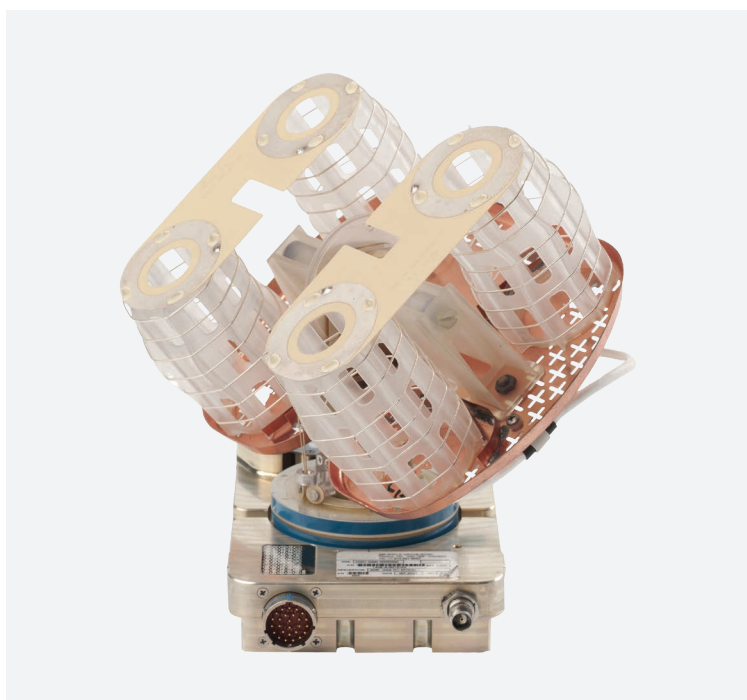
The AMT-700 is typically housed under a tail-mounted radome, but can also be mounted at several locations on the fuselage.



The use of an integrated ACU enables greater flexibility during installation and reduces the number of units required.



ARINC 781 DLNA interfaces allow this system to be used with any manufacturer's SwiftBroadband-approved HPA or terminal.



eNfusion® AMT-700 Antenna Specifications

CERTIFICATION AND APPROVALS	
FAA Technical STD Order	TSO-C132
RTCA	RTCA/DO-160E (environmental) RTCA/DO-178B Level D (software) MIL-STD-704/810/461
Inmarsat	Class 6 multi-channel assessed (SwiftBroadband, Aero H/H+, Swift 64)

ENVIRONMENTAL CHARACTERISTICS	
Maximum Altitude	70,000 ft. (21,336 m)
Minimum Altitude	None
Operational Temperature	-70°C to +71°C
Storage Temperature	-70°C to +85°C
Cooling Requirements	None
Temperature Variation	10°C per minute, 3 cycles
RF Susceptibility	RTCA/DO-160E
Grounding	Via aircraft interface screws/lugs

OPERATION	
Receive Frequency	1525.0 – 1559.0MHz
Transmit Frequency	1626.5 – 1660.5MHz
Power Supply	+28 VDC
Low Angle RF Coverage	>13.5 dBic gain (100% of Inmarsat coverage volume). Mechanically steers to -10° below horizon

DIMENSIONS	
Antenna Length	10.0" (25.40 cm)
Antenna Height	9.7" (24.64 cm)
Antenna Width	10.0" (25.40 cm)
Antenna Weight	4.3 lb. (1.9 kg)
Diplexer Length	11.1" (28.2 cm)
Diplexer Height	2.0" (5.1 cm)
Diplexer Width	7.8" (19.8 cm)
Diplexer Weight	7.0 lb. (3.2 kg)

Mounting

- Designed to fit in the empennage of the aircraft under a tail-mounted radome.
- Mounted at other locations on the airframe to suit specific aircraft requirements.

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