

Inmarsat High Gain SATCOM Antenna



TSO-C132 approved form with removable access panel.



ARINC 781– consistent interfaces for fast maintenance.



Low-drag co-efficient and footprint.

The eNfusion® AMT-3800 is an ARINC 781 High Gain Antenna (HGA) used to receive and transmit voice and data from a moving aircraft via the Inmarsat satellite network, and supports multi-channel SwiftBroadband (Class 6 services).

Form Factor

The assembly is made up of only two LRUs: a top fuselage-mounted antenna and a Diplexer/Low Noise Amplifier (DLNA). Phased array technology maintains gain at very low angles and meets stringent SwiftBroadband Passive Intermodulation (PIM) requirements. The AMT-3800 is approved for critical applications and air transport safety services.

The radome is optimally shaped both to be consistent with ARINC 781 standards and minimize drag forces. Its removable access panel minimizes aircraft downtime during installation and maintenance.

Part Numbers

AC Model Antenna (white)	1242-A-0010-01
DC Model Antenna (white)	1242-A-0010-02
DLNA	1242-A-0006
Connector Kit	1242-K-0290-01
AIM Adapter	(airframe dependant)
Erosion Boot	1242-F-0295
Maintenance Cable	1242-F-0121

eNfusion® AMT-3800 Antenna Specifications

Connectors (ARINC 429)	
RF Connector	TNC jack (MIL-STD-384A/313-2)
Digital Connector	MIL-STD-38999, series III, shell Multi pin power connector

Certification and Approvals	
FAA Technical STD Order	TSO-C132 Several aircraft specific STCs
RTCA Documents	RTCA/DO-160E (environmental) RTCA/DO-178B Level D (software)
Inmarsat	SwiftBroadband approved Aero H/H+, Swift 64, Class 6
ARINC Standards	ARINC 781 interfaces

Operation	
Receive Frequency	1525.0 – 1559.0 MHz
Transmit Frequency	1626.5 – 1660.5 MHz
Power Supply Options	+28 VDC or 115 VAC (wide freq.)
Power Consumption	35W maximum
Low Angle RF Coverage	10 dBic min gain (98% of coverage) 12 dBic min gain (90% of coverage)

Environmental Conditions	
Maximum Altitude	70,000 ft. (21,336 m)
Minimum Altitude	None
External Pressure Limit	4.5kPa
Maximum Speed	530KTAS, Mach 0.95
Operational Temperature	-57°C to +71°C
Storage Temperature	-57°C to +85°C
Cooling Requirements	None
Temperature Variation	10°C per minute, 3 cycles
Explosion Proof Certification	Environment III
RF Susceptibility	RTCA/DO-160E
Grounding	Via aircraft interface screws/lugs

Dimensions	
Antenna Length	43.0" (109.2 cm)
Antenna Height	2.5" (6.4 cm)
Antenna Width	14.3" (36.3 cm)
Antenna Weight	19.8 lb. (9.0 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

- Close to the top center line of the fuselage
- Antenna interface mounting (optional) for highly curved fuselage
- No special tools needed for installation

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