



MEA-1600-AM

IRIDIUM/GPS MAGNETIC/ADHESIVE MOUNT ANTENNA

Part #: 100-00237-01

Description

The MEA-1600-AM adhesive magnet Antenna is a 2-in-1 solution, with high gain and efficiency ideal for maintaining constant global connectivity via Iridium. The MEA-1600-AM covers GPS and Iridium frequencies. This is an ideal antenna for Iridium SBD, navigation and telematics systems, IoT applications and remote connectivity. This adhesive mount antenna is easy to install with maximum durability.

The MEA-1600-AM has one cable with a SMA-Male standard connector, 2m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types. This antenna is low profile, rugged and ground plane independent. It is compatible with any Iridium SBD transceiver.

Electrical Specifications

Parameter	Specification	
Standards	GPS/QZSS/Galileo	Iridium
Band (MHz)	1575	1621
Frequency (MHz)	1575.42	1616-1627
Return Loss (dB)	~ -12.9	~ -15.8
VSWR	~ 1.6:1	~ 1.5:1
Efficiency (%)	~ 66.6	~ 65.9
Peak Gain (dBi)	~ 2.5	~ 2.6
Average Gain (dB)	~ -1.8	~ -1.8
Impedance Ω	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	
Connector Type	SMA-Male standard (other connectors available)	
Cable Length	200 cm standard (any cable length available)	
Cable Type	D302 standard (other cables available)	



Features

- GPS/QZSS/Galileo and Iridium frequency coverage
- Easy mounting: magnetic/adhesive mount
- Low profile
- Customizable cable and connector
- Low profile $\varnothing$ 54 x 14.7 mm
- IP67
- IP69

Applications

- Iridium SBD
- Satellite IoT applications
- Telematic
- Navigation
- Satellite communications
- Remote surveillance
- Monitoring

Antenna Measurement Conditions

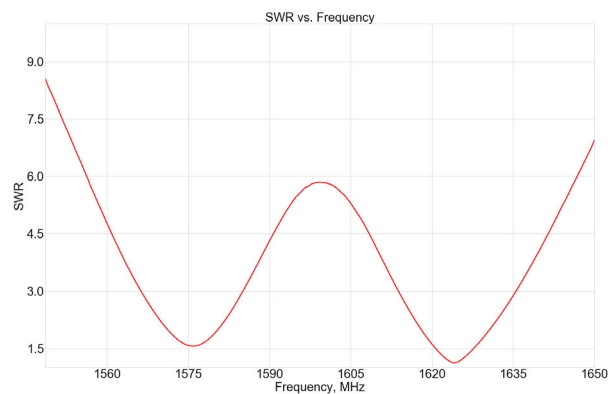
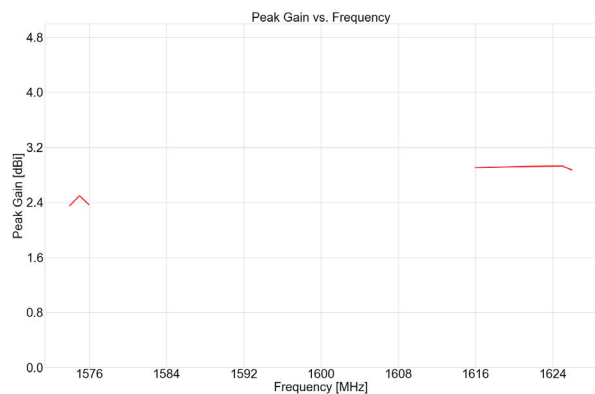
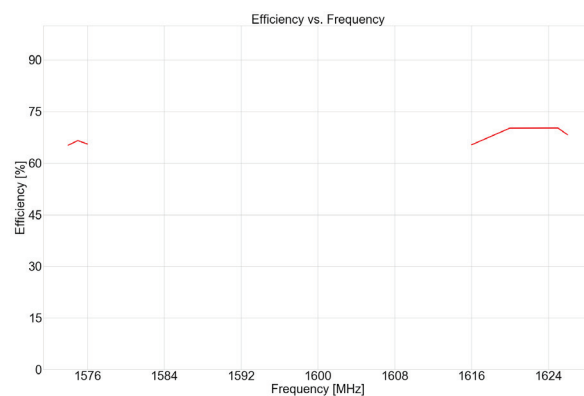
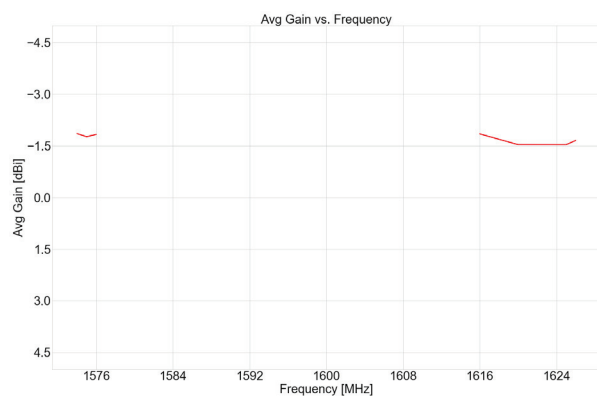
Mounted on metal plate of 30 x 30 cm
Measured in certified CTIA 3D anechoic chamber

Mechanical and Environmental Specifications

Parameter	Specification
Mounting Type	Magnetic/Adhesive Mount
Dimensions (mm)	Ø 54 x 14.7
Weight (g)	105
Radome Type	PC + ASA
Radome Color	Black
Operating Temperature (C)	-40 to +85°
Storage Temperature (C)	-40 to +85°
Substance Compliance	RoHS
Certificates	IP67, IP69, Iridium Certified

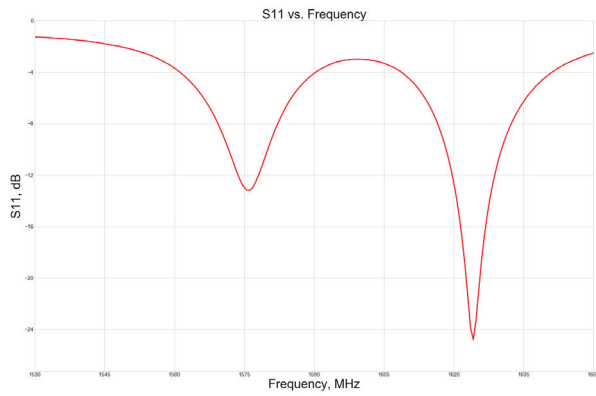
Radiation Performance

MEA-1600-AM

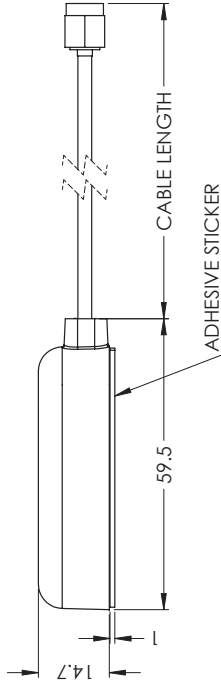
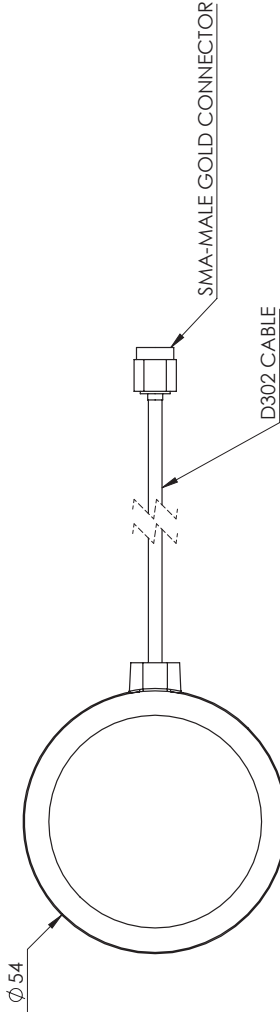
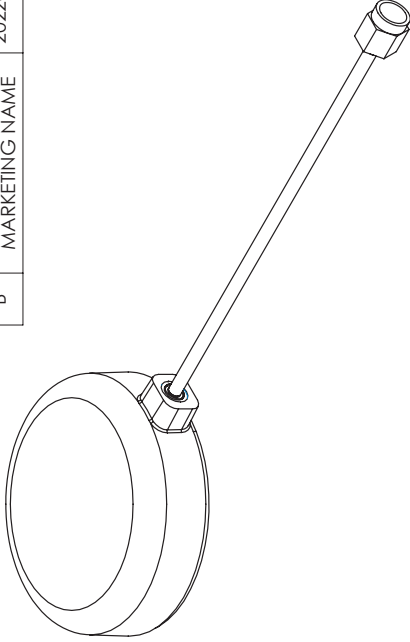


Radiation Performance

MEA-1600-AM



DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-01-28	JET
B	CHANGED MARKETING NAME	2022-05-27	SZ



NOTES:

1. FREQUENCY (GNSS and IRIUM): 1575.42 MHz, 1616-1627 MHz
2. DIMENSIONS ARE AFTER MOUNTING
3. CUSTOMIZABLE CABLE AND CONNECTOR TYPE
4. MOUNTING TYPE: MAGNETIC/ADHESIVE MOUNT
5. MATERIALS:
 - RADOME: PC+ASA
 - RADOME COLOR: BLACK
7. OPERATING TEMPERATURE: -40° C ~ +85° C
8. STORAGE TEMPERATURE: -40° C ~ +85° C
9. CERTIFICATION: IP67, IP69, IRIUM CERTIFIED

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL: DECIMAL: ONE PLACE DECIMAL: TWO PLACE DECIMAL: INTERPRET GEOMETRIC TOLERANCING PER: THIRD ANGLE PROJECTION DO NOT SCALE DRAWING				MAXTENA, INC			
DRAWN	JET	2022-01-28	DATE	CHECKED	ZX	2022-01-28	TITLE:
ENG APPR.	NPC	2022-01-28		MFG APPR.			
Q.A.							
CAD MAINTAINED, CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.				100-00237 MEA-1600-AM			
SIZE DWG. NO.				B 117-00573-01			
CAGE CODE: 5KQH7				SCALE: NONE			
SHEET 1 OF 1				REV B			

ITEM 100-00237 REVISION HISTORY				100-00237 CONFIGURATION TABLE			
REV	DESCRIPTION	DATE	BY	DASH NO	CABLE TYPE	CABLE LENGTH	CONNECTOR TYPE
A	INITIAL RELEASE	2022-01-28	JET	-01	D302	200 CM	SMA-MALE GOLD
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAXTENA, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAXTENA, INC IS PROHIBITED.				RADOME COLOR BLACK			

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