



# Embedded IRIIDIUM/GPS Antenna, P/N: 1.0GIR16RR-P-2MM-4-WB

## 1in. Square, Back/Front Mount, 2in MMCX Cable Configuration



ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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### SPECIFICATIONS

ZONE	REVISIONS	
	REV	DESCRIPTION

ELECTRICAL:	
FREQUENCY:	IRIDIUM (1610.0 - 1626.5) MHz      GPS L1: (1575.42 ±13)
RADIATION PATTERN:	HEMISPHERICAL      HEMISPHERICAL
POLARIZATION:	RHCP      RHCP
VSWR:	< 1.5:1      < 1.5:1
GAIN (dB):	Free Space      F.S.
@ 90° (Zenith):	0.0      0.0
@ 10° Elevation:	- 7.5      - 7.5
@ 20° Elevation:	- 5.5      - 6.1
@ 30° Elevation:	- 4.0      - 4.5
@ 60° Elevation:	- 2.3      - 1.4
BEAM WIDTH (3dB):	98 °-106 °      103 °
AXIAL RATIO @ Zenith:	2 dB      2 dB
POWER HANDLING:	30 W      1 Watt
LIGHTNING PROTECTION:	DC GROUNDING      DC GROUNDING
LNA GAIN:	N/A      OPTIONAL
LNA P 1dB Out:	N/A
LNA NOISE FIGURE:	N/A
VOLTAGE/CURRENT:	N/A

  

MECHANICAL:	
SIZE:	0.945in [24.01mm] SQ. HEIGHT: 0.2 in. [5 mm]
WEIGHT:	0.46 oz. (13 g)
FINISH:	BARE
MATERIAL:	Alumina UV, SOLVENT AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	2in MMCX MALE CABLE
MOUNTING:	FRONT 0-80 FLAT SCREW or BACK ADHESIVE

  

ENVIRONMENTAL:	
TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEALED

  

**FEDERAL & MILITARY SPECIFICATIONS:**

**DESIGN TO:** FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
4					5
					3
1					1

CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM LNA:	CABLE'S LENGTH:	GPS/IRIDIUM CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIIDIUM	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.8" SQ. (FLAT)	1216: L1+2 GPS	F: WITHOUT LNA	M: MMCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B	
2: 2" DIA. (FLAT)	GPS & IRIIDIUM		MI: Flush Mnt; Mount	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	1625: GLOBALSTAR	A2: WITH 20dB LNA	R: RIGHT ANGLE CON.	T: TNC; TB: TNC; Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	1523: GPS & XM				
53: (HELIX ROD)	1525: GPS & VHF				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					
1.0: 1" SQ.					

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		<b>ANTCOM CORP.</b> TORRANCE, CALIFORNIA <b>EMBEDDED IRIIDIUM/GPS Antenna</b>
FRACTIONS: 1/16, 1/8, 3/16, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8	DECIMALS: .005, .010, .015, .020, .030, .040, .050, .060, .070, .080, .090, .100	
TOLERANCE: .010 PER ANSI Y14.5	CHECKED:	
REMOVE ALL BURRS	ENGINEER:	
BREAK OFF TOP CORNERS .005 TO .015	APPROVED: S. HUYNH	DATE: JAN-27-11
FILLET R .005 TO R .010	CAD FILE NO:	SCALE: 1/1
DRIVE HOLES FOR M3-DRIVE DAYS ON A COMMON 1/2" DIA	DO NOT SCALE DRAWING	SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas