



ISO 9001:2008/FAA Approved Facility

# Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna

P/N: 0.7GIR1516RR-A2P-3.9RMM5.3RMM-4

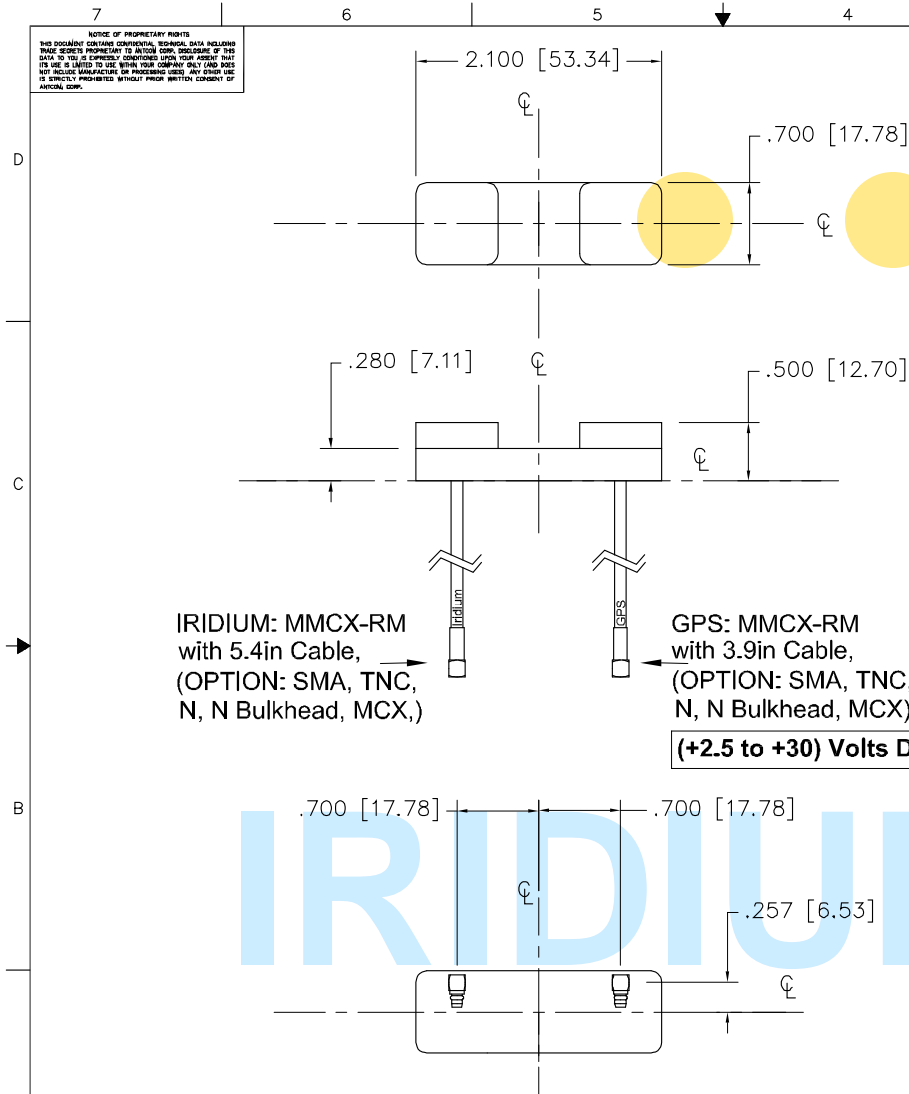
(2.1"x 0.7"x0.5"), Bottom Cables



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

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IRIDIUM: MMCX-RM with 5.4in Cable, (OPTION: SMA, TNC, N, N Bulkhead, MCX,)

GPS: MMCX-RM with 3.9in Cable, (OPTION: SMA, TNC, N, N Bulkhead, MCX,)  
**(+2.5 to +30) Volts DC**

# IRIDIUM

### SPECIFICATIONS

#### ELECTRICAL:

	IRIDIUM	GPS
FREQUENCY:	(1610.0 - 1626.5) MHz	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	(33.0+/-1.0) dB, 20dB (-A2- Option)
LNA P 1dB Out:	N/A	+16 dBm
LNA NOISE FIGURE:	N/A	2.8 dB
VOLTAGE/CURRENT:	N/A	(+2.8 TO +28) Volts DC / (30 ) mA

#### MECHANICAL:

SIZE: WIDTH: 0.700 in. [17.78 mm], LENGTH: 2.1in [53.34 mm], HEIGHT: 0.5 in. [12.9 mm]  
 WEIGHT: 1.2 oz. (34 g)  
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND CHEM FILM  
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE. RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT  
 CONNECTOR: IRIDIUM: MMCX-M (J1, Red); GPS: MMCX-M (J2, Blue)

#### MOUNTING:

FLAT FRONT (2 x 6-32 SCREWS), BACK (2 x 8-32 SCREWS),

#### 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

CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM LNA:	CABLE'S LENGTH:	GPS/IRIDIUM CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #7925 PER FED-STD-595B
1.8: 1.8" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	MIN: Flush Mag. Mount	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM		J: Cable Length (in)	N: N; NR: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.6" DIA. (FLAT)	1525: GLOBALSTAR	A2: WITH 20dB LNA	R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37036 PER FED-STD-595B
4: MINI ARING (FLAT)	1525: GPS & XM				
53: (HELIX ROD)	1525: GPS & XM				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					
1.0: 1.8x2.6x0.5in					

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .002 .010 ± 1°		<b>ANTCOM CORP.</b> TORRANCE CALIFORNIA Low Profile Active GPS/IRIDIUM Antenna
TOLERANCE SURF PER ANS Y14.5	DRIVER	
BREAK EXTERNAL EDGES TO .015	APPROVED S. HUYNH June-12-11	D 3CVC1 0.7GIR1516RR-A2P-3.9RMM5.4RMM-4 SCALE 1/1 SHEET 1 OF 1
DO NOT SCALE DRAWING	CAP FILE NO	

NMO Connector Option is Now Available for Some Antennas