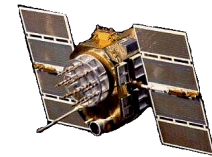




ISO 9001:2008/FAA Approved Facility

Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna
P/N: 1.5GIR1516RR-AP-20MNSS-4
(3.6" x 1.5" x 0.6"), Front, Back or Magnetic Mount with Cable



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7 **6** **5** **4** **3** **2** **1**

SPECIFICATIONS

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):	4 ft G.P. Free Space	F.S.	4 ft G.P.
@ 90° (Zenith):	+4.9 +5.0	+4.6	+2.9
@ 10° Elevation:	-1.0 -2.5	-2.5	-1.8
@ 20° Elevation:	+1.5 -0.5	-1.1	+0.7
@ 30° Elevation:	+2.4 +1.0	+0.5	+1.7
@ 60° to 90° Elevation:	>+3.3 >+2.7	>3.6	>2.1
BEAM WIDTH (3dB):	129 ° 98 °-106 °	103 °	146 °
AXIAL RATIO @ Zenith:	2 dB		
POWER HANDLING:	30 W 1 Watt		
LIGHTNING PROTECTION:	DC GROUNDING DC GROUNDING		
FILTER (REJ. @1616 MHz):	> 60 dB		
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 (Filter loss is included)	
VOLTAGE/CURRENT:	N/A	(+2.8 TO +28) Volts DC / (30 TO 50) mA	

ELECTRICAL:

MECHANICAL:

SIZE: WIDTH: 1.56 in. [39.7 mm], LENGTH: 3.64 in [92.5 mm], HEIGHT: 0.63 in. [16.0 mm]

WEIGHT: 3.5 oz. (99 g)

FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL, AND NICKEL PLATING

MATERIAL: 6061-T6ALUMINUMALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, ANDSKYDROLRESISTANCE, FIRE RETARDANT

CONNECTOR: IRIDIUM: SMA MALE (J1, Red); GPS: SMA MALE (J2, Blue)

MOUNTING: FLAT FRONT (2 x 6-32 SCREWS), BACK (4 x 2-56 SCREWS), or FLUSHMAGNET

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS

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

2x8-32 Thru. Tap for Optional Mounting

IRIDIUM: SMA MALE with 20in Cable, (OPTION: SMA, TNC Bulkhead, Bulkhead, MCX, MMCX)

GPS: SMA MALE with 20in Cable, (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

(+2.5 to +30) Volts DC

Optional Mounting: 8X 2-56 Tap X 0.118 Deep

2x Flush Magnets

CONFIGURATION:

1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" 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	#: Cable Length (in)	N: N; NB: N-Bulkhead	T: TNC; TB: TNC-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.		4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	1523: GPS & XM				
5B: (HELIX ROD)	1525: GPS & WI-FI				
5C: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: 1.5G1516RR-AP-20MNSS-4

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

ANTCOM CORP. TORRANCE CALIFORNIA

Low Profile Ruggedized Active GPS/IRIDIUM Antenna

APPROVED: S. HUYNH June-27-07

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas