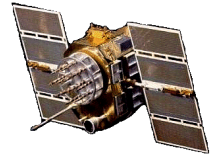




Active L1 GPS & (IRIDIUM/Inmarsat) Antenna

4.6in Tall, Blade Configuration, Top Mount, P/N: 5BG1516RR-AP-XTT-X

With BNC, TNC, SMA, N Connector Options.



ISO 9001:2008/FAA Approved Facility Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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SPECIFICATIONS

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):	F.S. 4 ft G.P
@ 90° (Zenith):	+0.1/+1.1 + 4.6 + 2.9
@ 10° Elevation:	-1.6/-0.8 - 2.5 - 1.8
@ 20° Elevation:	-0.8/+1.2 - 1.1 + 0.7
@ 30° Elevation:	-0.7/+1.1 + 0.5 + 1.7
@ 60° to 90° Elevation:	-0.7/0.0 > 3.6 > 2.1
BEAM WIDTH (3dB):	(180/162)° 103 ° 146 °
AXIAL RATIO @ Zenith:	2 dB 2 dB
POWER HANDLING:	30 W 1 Watt
LIGHTNING PROTECTION:	DC GROUNDIN G DC GROUNDIN G
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

MECHANICAL:

SIZE: WIDTH 1.75in. [44.45mm], LENGTH 5.25in. [133.35mm], HEIGHT 5.00in. [127mm]
 WEIGHT: 8.9 oz. (252g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
 CONNECTOR: IRIDIUM: TNC FEMALE (J1, Red); GPS: SMA FEMALE (J2, Blue)
 MOUNTING: FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

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

QUANTITY	DESCRIPTION	PART NO	FINISH	ITEM NO
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	5
1	O-RING 3G, 4G, Item 550	2-031-N756-75 (94115K031)	-	1

CONFIGURATION:	FREQ. BAND	GPS/IRIDIUM/LNA	CABLE 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 #17925 PER FED-STD-595B
1B: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MICK, 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	N: N; NB: N-Bulkhead	-3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)		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)				B: BNC FEMALE	
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: 5BG1516RR-AP-XST-1

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

NMO Connector Option is Now Available for Some Antennas