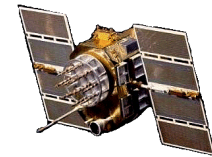




Active L1/L2 GPS & IRIDIUM Antenna
 P/N: 1.21GIR1216RR-A2P-7MMRMM-4
 (1.25" x 2.45" x 0.5"), Front/Back Mount with Bottom Cable



ISO 9001:2008/FAA Approved Facility

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

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SPECIFICATIONS

ZONE REV	REVISIONS			
	DESCRIPTION	DATE	APPROVED	

ELECTRICAL:

	IRIDIUM	GPS			
FREQUENCY:	(1610.0 - 1626.5) MHz	L1: (1575.42 ±13)	L2: (1227.42 ±13)		
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL			
POLARIZATION:	RHCP	RHCP			
VSWR:	< 2.0:1	< 2.0:1			
GAIN (dB):	Free Space	Free Space	3m G.P.	Free Space	3m G.P.
@ 90° Zenith:	0.0	-0.8	+3.8	-3.7	+2.7
@ 10° Elevation:	-7.5	-9.3	-4.3	-9.9	-6.3
@ 20° Elevation:	-5.5	-6.8	-2.2	-9.2	-4.2
@ 30° Elevation:	-4.0	-5.2	-0.7	-7.8	-2.4
@ 60° Elevation:	-2.3	> -2.1	> 2.5	> -4.7	> 1.3
BEAM WIDTH (3dB):	98 °-106 °	100 Deg.	120 Deg.	100 Deg.	90 Deg.
AXIAL RATIO @ Zenith:	2 dB	2.5 dB			
POWER HANDLING:	5 W	1 Watt			
LIGHTNING PROTECTION:	DC GROUNDING	DC GROUNDING			
LNA GAIN:	N/A	20dB			
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: 1.25 in. [31.7 mm], LENGTH: 2.450 in [62.2 mm], HEIGHT: 0.5 in. [12.7 mm]
 WEIGHT: 1.8 oz. (51 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: RIGHT ANGLE MMCX-M (J2, Blue)
 MOUNTING: 2 x 2-56 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

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .0005 .010 ± 1°

TELEPHONE 310 782 1076 FAX 310 782 1086
 BREAK ALL DIMENSIONS EXCEPT THOSE .005 TO .015 INCHES & .100 TO .250 INCHES WHICH ARE TO .0005 INCHES UNLESS OTHERWISE SPECIFIED
 MACHINED SURFACES 125

APPROVED: S. HUYNH DEC-01-10
 DRAWN: [Signature]
 CHECKED: [Signature]
 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
 Low Profile Ruggedized Active GPS/IRIDIUM Antenna

REV: D 3C1E1 1.21GIR1216RR-A2P-7MMRMM-4
 SCALE: 1/1 SHEET 1 OF 1

CONFIGURATION: 1: 2" SQ. (FLAT) 1516: L1 GPS & IRIDIUM 2: 2.6" DIA. (FLAT) GPS & IRIDIUM 3: 3.5" DIA. (FLAT) 1523: GLOBAL STAR 4: MINI ARINC (FLAT) 1523: GPS & XM 5B: (HELIX ROD) 1523: GPS & VHF 5D: (HELIX HANDHELD)

FREQ. BAND: 1516: L1 GPS & IRIDIUM 1523: GLOBAL STAR 1523: GPS & XM

GPS/IRIDIUM LNA: A: WITH LNA P: WITHOUT LNA A2: WITH 20dB LNA

CABLE'S LENGTH: X: NO CABLE MIN: Flush Mag. Mount #: Cable Length (in) R: RIGHT ANGLE CON.

GPS/IRIDIUM CONNECTOR: S: SMA; P: PINS M: MCX; MM: MMCX N: N; NB: N-Bulkhead T: TNC; TB: TNC-Bulkhead

COLOR: -1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: DESERT TAN #33446 PER FED-STD-595B

NMO Connector Option is Now Available for Some Antennas