



ISO 9001:2008/FAA Approved Facility

Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna

P/N: 1.0GIR1516RR-A2P-1.25MM-4

(1.0"x 2.5"x 0.5"), Front, or Back Mount with Bottom Cable



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

2x8-32 Thru. Top for Optional Mounting

2x.336 [8.54]

2xø.281 [ø7.14] 82' C-Sink for Optional 6-32 Flat Head Mounting Screws

IRIDIUM: MMCX-M with 1.25in Cable, (OPTION: SMA, TNC, N, N Bulkhead, MCX,)

GPS: MMCX-M with 1.25in Cable, (OPTION: SMA, TNC, N, N Bulkhead, MCX,)

(+2.5 to +30) Volts DC

ACTIVE GPS PASSIVE RESISTANT ANTENNA
P/N: 1.0GIR1516RR-A2P-1.25MM-4
S/N: 109486 V1.1.8 SN. 068000
Antcom Corporation
Torrance, CA, USA

MECHANICAL:

SIZE: WIDTH: 1.00in. [25.4 mm], LENGTH: 2.5in [63.5mm], HEIGHT: 0.5in. [12.9mm]

WEIGHT: 1.6 oz. (45 g)

FINISH: SKYDROLRESISTANTPOLYURETHANEENAMEL, AND CHEMFILM

MATERIAL: 6061-T6 ALUMINUMALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, ANDSKYDROLRESISTANCE, 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: 70,000ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLYSEALED

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

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 GROUNDIN G	DC GROUNDIN G
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

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

CONFIGURATION:

CONFIGURATION	FREQ. BAND	GPS/IRIDIUM/NA	CABLE LENGTH	GPS/IRIDIUMCONNECTOR	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
1.9: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	MN: 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	-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)	1523: GPS & WI-FI				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					
1.0: 1inx2.5inx0.5in					

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QUANTITY

DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO

ANTCOM CORP. TORRANCE, CALIFORNIA

Low Profile Ruggedized Active GPS/IRIDIUM Antenna

DATE: June-27-07

SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas