



Active L1 GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna (5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: S5GIR1516RR-AP-XTT-X With BNC, TNC, SMA, N Connector Options.



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

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>

MECHANICAL:
 SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in. [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]
 WEIGHT: 8.3 oz (235 g)
 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: TNC FEMALE (J2, Blue)
 MOUNTING: FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

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): | 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 | | 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 | |

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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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810 AND SAE J1455

| QUANTITY | DESCRIPTION | PART NO | MATERIAL | FINISH | TEST NO |
|----------|-----------------------------|---------------|----------|--------|---------|
| 4 | MOUNTING SCREW: (10-32, 1") | MS24693C276 | - | - | 5 |
| 1 | O-RING | 2-038-N756-75 | - | - | 3 |

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 FRACTIONS SHALL BE IN 16THS OF AN INCH
 DECIMALS SHALL BE IN 100THS OF AN INCH
 ± 1/64 ± .0005 ± .001 ± .002 ± .005 ± .010 ± .015 ± .020 ± .030 ± .050 ± .075 ± .100 ± .150 ± .200 ± .300 ± .500 ± 1"

ANTCOM CORP. TORRANCE, CALIFORNIA
FLAT FIXED MOUNT ACTIVE IRIDIUM/GPS ANTENNA

DATE: DEC-13-02
 DRAWN: S. HUYH
 CHECKED: S. HUYH
 APPROVED: S. HUYH
 SCALE: 1/1
 SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas