



FAA Approved Facility

GPS/RHCP-Inmarsat/Iridium Antennas, P/N: 1G1216P-XX-X or LHCP-Thuraya only Antennas, P/N: 1T1516P-XX-X

2.0" Square, Flat, Back Mount, Side Cable Connector Configurations

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



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ELECTRICAL: SPECIFICATIONS

| | L1/L2 GPS | | Rx/Tx INMARSAT/GLONASS/IRIDIUM | | |
|------------------------|----------------------------|-------------------|--------------------------------|-----------------|--------------|
| | L1: (1575.42 ±12) | L2: (1227.60 ±12) | (1542.50 ±17.5) | (1642.50 ±17.5) | (1602-1626) |
| FREQUENCY (MHz): | 3.5" Dia. GP | 4 ft G.P. | 3.5" Dia. GP | 4 ft G.P. | 3.5" Dia. GP |
| ANTENNA GAIN (dBic): | +5.5 | +4.5 | +3.3 | +4.9 | +3.4 |
| @ 90 ° (ZENITH): | | | | | +4.3 |
| @ 10 ° Elevation: | -1.2 | -1.4 | -3.8 | -3.6 | -3.7 |
| @ 20 ° Elevation: | +0.3 | +1.4 | -2.0 | -0.1 | -2.0 |
| @ 30 ° Elevation: | +1.8 | +2.2 | -0.5 | -1.8 | -1.3 |
| @ 60 - 90 ° Elevation: | >4.8 | >3.8 | >2.7 | >3.0 | >2.0 |
| BEAM WIDTH (3dB): | 106 Deg. | 130 Deg. | 106 Deg. | 75 Deg. | 106 Deg. |
| RADIATION PATTERN: | HEMISPHERICAL | | | | |
| POLARIZATION: | RHCP | | | | |
| VSWR: | < 1.5:1 | | | | |
| IMPEDANCE: | 50 ohms | | | | |
| AXIAL RATIO: | 2 dB | | | | |
| LIGHTNING PROTECTION: | DC GROUNDING | | | | |
| POWER HANDLING: | 200 Watts CW (WITHOUT LNA) | | | | |

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]
HEIGHT: 0.657 in. [16.69 mm], .499 in. [12.67mm] (No Radome option)

WEIGHT: 2.88 oz. (82 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA MALE WITH 36" CABLE
(OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead,
MCX, MMCX, or Cable)

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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

MOUNTING:
4X 4-40 UNF-2A
X 0.155 Deep,
ADHESIVE GASKET,
OPTIONAL: MAGNET

SPHERICAL R6.000 [R152.40]

2.078 [52.78] SQ.

4X R.780 [R19.81]

4X .756 [19.20]
4X .756 [19.20]

**.657 [16.69] (With Radome),
.499 [12.67] (No Radome option)**

**SMA MALE
36" LONG CABLE
(OPTIONAL: MCX, MMCX, TNC, OR N)**

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

| | | |
|---------------|-----------------|---|
| SIZE: | FREQUENCY BAND: | PL: WITH LNA |
| 1: 2" SQ. | 1215-1575 MHz | PL: WITH LNA/LIMITER |
| 1.9: 1.9" SQ. | 15: L1, L2 | PL: WITH LNA/LIMITER |
| 2: 2.6" DIA. | 1216: L1, L2 | P: WITHOUT LNA |
| 3: 3.5" DIA. | RX/TX INMARSAT | PL: WITHOUT LNA and THINNER (0.58" THICK) |
| 4: MINI ARING | GLONASS/IRIDIUM | |

CONDUCTIVE LENGTH: CONDUCTOR: COLOR:

X: INCHES
M: MAG. N: No Radome
#: CABLE LENGTH (IN)
R: RIGHT ANGLE CON.

1: SOLDER PINS
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

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS SHALL BE IN 16ths UNLESS OTHERWISE SPECIFIED
DECIMALS SHALL BE TO 0.005 UNLESS OTHERWISE SPECIFIED
TOLERANCE DIM PER ANG AND Y14.5
HOLD ALL SURFACES UNLESS OTHERWISE SPECIFIED
HOLD ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED
HOLD ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED
HOLD ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED
MACHINED SURFACES UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DRAWING

| QUANTITY | DESCRIPTION | PART NO. | SPECIFICATION | MATERIAL | FINISH | QTY REQ |
|----------|-----------------|--------------|---------------|----------|--------|---------|
| 1 | ADHESIVE GASKET | 12345G-3M-1G | | | | 3 |
| 1 | | | | | | 2 |
| 1 | | | | | | 1 |
| -2 | | | | | | -1 |

ANTCOM CORP. TORRANCE CALIFORNIA

2in SQ. L1/L2
GPS/INMARSAT/GLONASS/
IRIDIUM ANTENNA

D 3CVE1 1G1216P-36S-3

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas