



ISO 9001:2008/FAA Approved Facility

New **Thuraya** or **Inmarsat/IRIDIUM/GPS Antenna**
P/N: 3GNSS16R-P-MX-X (Inmarsat/Iridium RHCP), P/N: 3GNSS16L-P-MX-X (Thuraya LHCP)
3.5" Diameter, Flat, Front/Back Magnetic Mount Configurations
2.6in Dia., Mini-Arinc, & Arinc-743 Versions are also available

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



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4x ϕ .20 [ϕ 5.11] Thru. \checkmark ϕ .385 [ϕ 9.78] X 100" for 10-32 MOUNTING SCREWS

SPHERICAL R6.000 [R152.40]

MAGNETIC MOUNT

SMA CONNECTOR (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

4x 0.190-32 UNC-2B 0.250" Deep, Equally Spaced on 1.375" Rad. for Optional Mounting

SPECIFICATIONS

| | Rx-Thuraya (LHCP), or Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP) | L1 GPS, E1, E2 Galileo, L1 IRNSS (RHCP) | IRIDIUM, L1 GLONASS (RHCP) or Tx-Globalstar (LHCP) | Tx-Thuraya (LHCP) or Tx-Inmarsat (RHCP) |
|----------------------------------|---|---|--|---|
| FREQUENCY: | (1542.5 \pm 17.5) MHz | (1575 \pm 17) MHz | (1609 -1626) MHz | (1642.5 \pm 17.5) MHz |
| RADIATION PATTERN: | HEMISPHERICAL | | | |
| VSWR: | < 2.0:1 | | | |
| IMPEDANCE: | 50 ohms | | | |
| ANTENNA GAIN (dBic): | Free Space | 4 ft G.P. | Free Space | 4 ft G.P. |
| @ 90° (ZENITH): | + 2.5 | + 1.6 | + 3.7 | - 1.5 |
| @ 10° Elevation: | - 4.7 | - 2.4 | - 3.5 | - 1.5 |
| @ 20° Elevation: | - 3.8 | + 0.7 | - 2.6 | - 0.9 |
| @ 30° Elevation: | - 2.1 | + 2.3 | - 0.9 | + 0.3 |
| @ 60 - 90° Elevation: | > + 1.0 | > + 2.1 | > + 2.3 | > 0 |
| BEAM WIDTH (3dB): | 90 Deg. | 140 Deg. | 85 Deg. | 140 Deg. |
| AXIAL RATIO: | 3 dB | | | |
| LIGHTNING PROTECTION: | DC GROUNDING | | | |
| LNA OPTION: | 33 dB Gain | | | |
| LNA NOISE FIGURE: | 3.0 dB | | | |
| LNA P1dB Out: | +13 dBm | | | |
| LNA DC POWER: | 2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA | | | |
| REJECTION @ (-50/+50) MHz | -40 dB / -40 dB | | | |
| @ (-100/+100) MHz | < -65 dB | | | |
| POWER HANDLING: | 100 Watts CW (WITHOUT LNA) , 1 Watt CW (WITH LNA) | | | |

ELECTRICAL:

MECHANICAL:

SIZE: DIAMETER: 3.53 in. [89.7 mm]
 HEIGHT: 0.845 in. [21.46 mm]

WEIGHT: 10.8 oz. (306g)

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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

| SIZE: | POLARIZATION: | LNA: | QUANTITY | RECD | DESCRIPTION | PART NO | FINISH | TEMP |
|---------------|---------------|---------------------|----------|------|-------------------------------------|-----------------|--------|------|
| 1: 2" SQ. | R: RHCP | A: WITH LNA | 4 | - | MOUNTING SCREWS: 10-32, 3/4" | MS24693C274 | | 5 |
| 1.9: 1.9" SQ. | L: LHCP | A: WITH LNA/LIMITER | 1 | 1 | ADHESIVE Rubber Cover (Item 541G31) | Magnet-Cover-31 | | 1 |
| 2: 2.6" DIA. | | P: WITHOUT LNA | -2 | -1 | | | | |
| 3: 3.5" DIA. | | | | | | | | |
| 4: MINI ARINC | | | | | | | | |

P/N: 3GNSS16X-P-MT-3

| CABLE'S LENGTH: | CONNECTOR: | COLOR: |
|----------------------|--------------------------|--|
| X: NO CABLE | S: SMA; P: FINS | +1: GLOSS WHITE #17925 PER FED-STD-595B |
| M: MAG, N: No Mag | M: MCX; MM: MMCX | -2: LUSTERLESS GRAY #36320 PER FED-STD-595B |
| #: CABLE LENGTH (IN) | N: N, NB: N-Bulkhead | -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B |
| R: RIGHT ANGLE CON. | T: TNC, TB: TNC-Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TOLERANCES ARE ANGLES \pm 1/64 .XXXX .005 \pm 1° TOLERANCE SW PER ANG V14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILED .005 TO .010 SMOOTH SURFACES PER MIL-STD-883C DIA'S ON A COMMON \pm .0005 MACHINED SURFACES \pm .0005 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
 3.5" Dia., Magnetic Mount
 THURAYA Or IRIDIUM/GPS
 INMARSAT/GLONASS/ANTENNA
 D | 3CVE1 | 3GNSS16X-P-MX-X | A
 SCALE 1/1 SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas