



FAA Approved Facility

IRIDIUM/GPS Antenna P/N: 0.5R1216P-XTM-4-SL Rev E:

0.5" Diameter x 6" Tall, Spring Loaded Threaded Bottom Mount Configuration

Also Available in UHF, Thuraya, L/S/C-Band, Ku-Band, and other Frequency Bands

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



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OPTIONAL SPRING LOADED ADAPTER:
P/N: TNC-M-SL-2in-TNC-F

SPECIFICATIONS

ELECTRICAL:

| FREQUENCY (MHz): | (1575.42 ±15) | (1542.50 ±17.5) | (1642.50 ±17.5) | (1602-1616) | (1610-1626) |
|--------------------------|---------------|-----------------|-----------------|-------------|-------------|
| GAIN in FS/3in GP (dBic) | L1 GPS | Rx INMARSAT | Tx INMARSAT | GLONASS | IRIDIUM |
| @ 90° (Zenith): | -1.6 | -2.9 | +0.1 | +0.5 | +0.5 |
| @ 10° Elevation: | -4.5 | -6.0 | -2.1 | -2.0 | -2.0 |
| @ 20° Elevation: | -3.5 | -5.0 | -1.1 | -0.9 | -0.9 |
| @ 30° Elevation: | -2.8 | -4.2 | -0.7 | -0.3 | -0.3 |
| @ 45° Elevation: | -2.3 | -3.5 | -0.2 | +0.3 | +0.3 |
| @ 70° Elevation: | -1.8 | -3.0 | -0.4 | +0.2 | +0.2 |
| BEAM WIDTH (3dB) | 152 Deg. | 150 Deg. | 170 Deg. | 160 Deg. | 160 Deg. |
| AXIAL RATIO (dB) | 1 to 3 | 1 to 3 | 1 to 3 | 1 to 3 | 1 to 3 |
| RADIATION PATTERN: | HEMISPHERICAL | | | | |
| POLARIZATION: | RHCP | | | | |
| VSWR: | < 2.0:1 | | | | |

LNA OPTION for GPS:

LNA GAIN: (27.0+/-2.0) dB
LNA NOISE FIGURE: <1.4 dB
LNA P 1dB Out: +13 dBm
VOLTAGE/CURRENT: (3-10) Volts/ 20mA

MECHANICAL:

SIZE: DIAMETER: 0.50 in. [12.70 mm]
HEIGHT: 6.01 in. [153 mm]
WEIGHT: 1.3 oz (37 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, BLACK ANODIZING (MIL-A-8625F, Type II Class II)
COLOR: See Below Description
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: TNC MALE (OPTION: MMCX, MCX, SMP, SSMC, SMA, BNC TNC FEMALE, TNC-BULKHEAD, N, N-BULKHEAD, 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-A-8625F, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

P/N: 0.5R1216P-XTM-4-SL

| CONFIGURATION: | FREQUENCY: | LNA: | CABLE'S LENGTH: | FEMALE CONNECTOR: | COLOR: | QUANTITY | DESCRIPTION | PART NO | MATERIAL | FINISH | REF NO |
|----------------------------|------------------------|----------------|----------------------|--------------------------|----------------------------------------------------------|----------|-------------|---------|----------|--------|--------|
| 1: 2" SQ. (FLAT) | 1216: L1/L2/Inmarsat | A1: WITH LNA | X: NO CABLE | S: SMA; P: PINS | -1: GLOSS WHITE #17925 PER FED-STD-595B | 1 | | | | | 1 |
| 1.5: 1.9" SQ. (FLAT) | 1215: L1/L2 | | M: WITH MAG. MOUNT | M: MCX; MM: MMCX | -2: LUSTERLESS GRAY #36320 PER FED-STD-595B | | | | | | |
| 2: 2.8" DIA. (FLAT) | 15: L1 | P: WITHOUT LNA | #: CABLE LENGTH (IN) | SMP; SSMC; B: BNC | -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B | -2 | | | | | |
| 3: 3.8" DIA. (FLAT) | RR: TX: RHCP, RX: RHCP | | R: RIGHT ANGLE CON. | T: TNC; TB: TNC-Bulkhead | -4: Natural Back Color from Ultem 2200 Black (20% Glass) | -1 | | | | | |
| 0.5R: 0.5" DIA. RHCP HELIX | | | | TM: TNC MALE | -5: Desert Tan | | | | | | |
| 0.5T: 0.5" DIA. LHCP HELIX | | | | IN: N; NB: N-Bulkhead | | | | | | | |
| 53: (HELIX ROD) | | | | | | | | | | | |
| 5B: (HELIX BLADE) | | | | | | | | | | | |
| 3D: (HELIX HANDHELD) | | | | | | | | | | | |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .010 ± 1°

TOLERANCE SHIP PER AMS Y14.5 REMOVE ALL BURRS BREAK INTERNAL EDGES .008 TO .015 FILED TO .010 TO .020 SCREW THREADS PER MIL-S-8879 D1.5 ON A COARSE PITCH MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
HANDHELD L1/L2 GPS/INMARSAT/GLONASS/IRIDIUM ANTENNA
D3C VE 10.5R1216P-XTM-4-SL E
SCALE 1/1 SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas