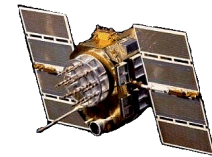




IRIDIUM/Inmarsat/GPS Antenna, P/N: 0.5R1216P-XTM-4-GN-Xin


Ruggedized, Light Weight, Low Profile Gooseneck Mount Configuration

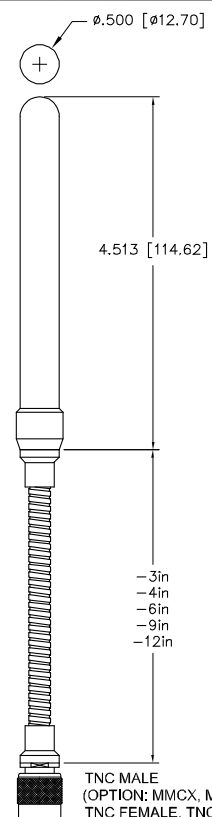
Also Available in UHF, Thuraya, L/S/C-Band, Ku-Band, and other Frequency Bands



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

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





P/N: 0.5R1216P-XTM-4-GN-Xin

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, D0-228, MIL-A-8625F, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

CONFIGURATION:	FREQUENCY:	LNA:	CABLE'S LENGTH:	FEMALE CONNECTOR:	COLOR:
1: 2" SO, (HAT)	1216: L1/L2/Inmarsat/Iridium	A1: WITH LNA	X: NO CABLE	SM: SMA MALE; SF: SMA F	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.5: 1.9" SO, (FLAT)	1216: L1/L2: IS: LT	P: WITHOUT LNA	M: WITH MAG. MOUNT	TM: TNC MALE; TF: TNC F	-2: LUSTERLESS GRAY #38320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	TxR: Tx/Rx: Thuraya	R: RIGHT ANGLE CON.	R: CABLE LENGTH (IN)	N: N MALE; NF: N F	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RxT: Tx Thuraya			BM: BNC MALE; BF: BNC F	-4: Natural Back Color from Ultem 2200 Black (20% Glass)
0.5R: 0.5" Dia. RHCP HELIX	KuV: Ku-Band V; KuR: Ku RHCP			TB: TNC F- Bulkhead	-5: Desert Tan
0.5T: 0.5" Dia. LHCP HELIX	X.XX-Y.YY: (X.XX-Y.YY) GHz			NB: N F- Bulkhead	-8: Desert Tan
5S: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HAND-HELD)					

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

QUANTITY	DESCRIPTION	PART NO.	MATERIAL	FINISH	REV.
1	1	-	-	-	1
-2	-1	DESCRIPTION	PART NO.	MATERIAL	FINISH

ANTCOM CORP. TORRANCE, CALIFORNIA

HANDHELD L1/L2 GPS/INMARSAT/GLONASS/IRIDIUM ANTENNA

D.3CVE1 0.5R1216P-XTM-4-GN-Xin

SCALE 1/1 SHEET 1 OF 1

