



FAA Approved Facility

Iridium/Inmarsat/Glonass/L1 GPS Antennas, P/N: 3D16P-10MM-X-3  
 Iridium/Inmarsat/Glonass/L1/L2 GPS Antennas, P/N: 3D1216P-10MM-X-3  
 Rx Only Thuraya Antenna, P/N: 3DRxTP-XS-10MM-3  
 Rx Only Inmarsat/Iridium Antenna, P/N: 3DRxINP-10MM-X-3  
 Rx/Tx Thuraya Antenna, P/N: 3DRxTxTP-XS-10MM-3  
 Rx/Tx Inmarsat/Iridium Antenna, P/N: 3DRxTxINP-10MM-X-3  
 1" Dia. x 4.2" Tall, Threaded Bottom Mount Configuration



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

**NOTICE OF PROPRIETARY RIGHTS**  
 THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR AGREEMENT THAT YOU WILL MAINTAIN THIS INFORMATION CONFIDENTIAL AND THAT YOU WILL NOT REPRODUCE, MANUFACTURE OR REPRODUCE THIS INFORMATION IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF ANTCOM CORP.

**SPECIFICATIONS**

ZONE	REV	REVISIONS			
		DESCRIPTION	DATE	APPROVED	

**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):	+1.4/+1.1	+1.1/+0.7	+0.1/-0.3	+1.0/+0.5	+0.5/+0.1
@ 10° Elevation:	-1.5/-0.9	-2.0/-1.6	-2.1/-1.9	-1.7/-1.3	-2.0/-1.6
@ 20° Elevation:	-0.5/-0.2	-1.0/-0.8	-1.1/-1.1	-0.6/+0.5	-0.9/-0.8
@ 30° Elevation:	+0.2/+0.3	-0.2/-0.2	-0.7/-0.8	0.0/+0.1	-0.3/-0.7
@ 45° Elevation:	+0.7/+0.6	+0.5/+0.3	-0.2/-0.7	+0.5/-0.1	+0.3/-0.3
@ 70° Elevation:	+1.2/+0.3	+1.0/+0.3	-0.4/-1.6	+0.7/-0.3	+0.2/-0.7
BEAM WIDTH (3dB)	152/173 Deg.	150/173 Deg.	170/180 Deg.	160/180 Deg.	160/182 Deg.
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
LIGHTNING PROTECTION:	DC GROUNDING				
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP				
VSWR:	< 1.5:1				

**LNA OPTION:**

LNA GAIN: (22.0+/-2.0) dB  
 LNA NOISE FIGURE: 2.0 dB  
 LNA P 1dB Out: +13 dBm  
 VOLTAGE/CURRENT: (+2.4 TO +5) Volts DC / (15 TO 30) mA

**MECHANICAL:**

SIZE: DIAMETER: 1.00 in. [ 25.40 mm]  
 HEIGHT: 4.4 in. [111.76 mm]  
 WEIGHT: 3.3 oz (93.55 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: CABLE/MMCX RIGHT ANGLE MALE  
 (OPTION: MCX, SMA, TNC, TNC Bulkhead, N, N Bulkhead,  
 MCX, MMCX, QMA, 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

P/N: 3D16P-10MM-3-3

CONFIGURATION:	FREQUENCY:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1216: L1/L2/Inmarsat	A1: WITH LNA	X: NO CABLE	S: SMA; Q: QMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8: 1.8" SQ. (FLAT)	1215: L1/L2	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	15: L1		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP; RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINIFRING (FLAT)					
5: HELIX ROD					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	TEMP
1	1	-	-	-	1
-2	-1	DESCRIPTION	PART NO	MATERIAL	FINISH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO DECIMALS ANGLES ± 1/64 .005 .015 ± .1	DATE	BY	CHK'D	APP'D
TOLERANCE S/M PER ANSI Y14.5 REMOVE ALL SHARP BREAK EXTEND EDGES .005 TO .015 SCREW HEADS PER MIL-C-8879 DIA'S ON A COMMON 2.000 MACHINED SURFACES 12.5	ORIGINALLY DRAWN	S. HUYNH	Feb-23-04	
	ORIGINALLY DESIGNED	S. HUYNH	Feb-23-04	
	UPDATED	S. HUYNH	Mar-28-16	
	UPDATED DRAWN	P. TRIAN	Mar-28-16	
	APPROVED	S. HUYNH	Mar-28-16	

**ANTCOM CORP.** TORRANCE, CALIFORNIA

0.5-28 Threaded Base Helix L1 GPS/INMARSAT/GLONASS/IRIDIUM ANTENNA

3D16P-10MM-3-3

SCALE 1/1 SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas