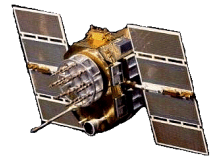




ISO 9001:2008/FAA Approved Facility

L1 GPS & Iridium/Inmarsat/Glonass Antennas, P/N: 3D16P-XS-X-2
 L1/L2 GPS & Iridium/Inmarsat/Glonass Antennas, P/N: 3D1216P-XS-X-2
 Rx Only Thuraya Antenna, P/N: 3DRxTP-XS-X-2
 Rx Only Inmarsat/Iridium Antenna, P/N: 3DRxINP-XS-X-2
 Rx/Tx Thuraya Antenna, P/N: 3DRxTxTP-XS-X-2
 Rx/Tx Inmarsat/Iridium Antenna, P/N: 3DRxTxINP-XS-X-2
 1" Diameter x 4.2" Tall, Swivel, Side Mount (Better L2) Configurations



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

Technical drawing showing side and top views of the antenna. Dimensions include diameter (1.000 in), height (4.000 in), and SMA connector length (.966 in). Callouts include 'SMA MALE CONNECTOR 360° SWIVELS' and 'O-Ring'.

SPECIFICATIONS

ELECTRICAL:

	(1575.42±13)	(1542.50±17.5)	(1642.50±17.5)	(1602-1616)	(1616-1626)	(1227.60±13)
FREQUENCY (MHz):	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM	L2 GPS
GAIN (dBic):	+2.9	+0.7	-1.6	+0.3	-1.2	0.0
@ 90° (Zenith):	-0.4	-2.8	-4.9	-3.1	-4.3	-2.4 to -6.3
@ 10° Elevation:	+0.5	-1.7	-3.5	-1.7	-3.0	-1.8 to -4.8
@ 20° Elevation:	+1.7	-0.7	-2.4	-0.7	-1.9	-1.3 to -3.4
@ 30° Elevation:	+2.4	+0.2	-2.3	-0.1	-1.8	-0.5 to -1.5
@ 45° Elevation:	+2.3	+0.6	-2.1	+0.2	-1.6	0.0 to -0.5
@ 70° Elevation:						
BEAM WIDTH (3dB)	142 Deg.	140 Deg.	146 Deg.	144 Deg.	145 Deg.	(120 to 165) Deg.
AXIAL RATIO (dB)	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 5
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.5:1					

DC GROUNDING: YES (LIGHTNING PROTECTION)

LNA OPTION:

LNA GAIN: (22.0+/-2.0) dB
 LNA NOISE FIGURE: 2.8 dB (Filter loss is Included)
 LNA P 1dB Out: +13 dBm
 VOLTAGE/CURRENT: (+2.4 TO +5) Volts DC / (15 TO 30) mA
 REJECTION: 2 2-POLE FILTERS FOR EACH BAND

MECHANICAL:

SIZE: DIAMETER: 1.00 in. [25.40 mm]
 HEIGHT: 4.2 in. [106.68 mm]
 WEIGHT: 3.3 oz (93.55 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441
 COLOR: OLIVE DRAB GREEN #34031 PER FED-STD-595B
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
 SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: SMA MALE CONNECTOR, 360° SWIVELS
 (OPTION: MCX, SMA, 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

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	UNIT
1	1					1
-2	-1					

UNLESS OTHERWISE SPECIFIED:

FRAC TIONS ARE IN INCHES
 ± 1/64
 TOLERANCE 5M PER AND 1/16
 UNLESS ALL DIMENSIONS ARE SPECIFIED TO THE
 DIMENSIONS SHOWN ON THE DRAWING
 UNLESS OTHERWISE SPECIFIED
 MACHINED SURFACES
 DO NOT SCALE DRAWING

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17926 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: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

ANTCOM CORP TORRANCE CALIFORNIA

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

DATE: 08/15/03
 DRAWN: M. BOAS
 CHECKED: S. HUYNH
 SCALE: 1/1
 SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas