



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, Suite 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 [25.40], height 4.735 [120.27], SMA connector length 1.096 [27.85], and base diameter 0.735 [18.67]. 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					

P/N: 3D1216X-XS-3

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

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector is Now Available for Some Antennas