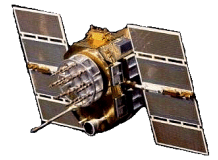




ISO 9001:2008/FAA Approved Facility

L1 or L1/L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-4.5MM-X-2
 Rx Only Thuraya Antenna, P/N: 3DRxTP-4.5MM-X-2
 Rx Only Inmarsat/Iridium Antenna, P/N: 3DRxINP-4.5MM-X-2
 Rx/Tx Thuraya Antenna, P/N: 3DRxTxTP-4.5MM-X-2
 Rx/Tx Inmarsat/Iridium Antenna, P/N: 3DRxTxINP-4.5MM-X-2
 1" Diameter x 4.2" Tall, Swivel, Side Mount (Better L2) Configurations
 Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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>

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

P/N: 3D1216X-4.5MM-3

FREQ. BAND:	LNA:
1215: L1/L2	A: WITH LNA
15: L1 ONLY	P: WITHOUT LNA
1216: L1/L2/INMARSAT/GLONASS/IRIDIUM	
0416: UHF/L1/L2/INMARSAT (2 Connectors)	

CABLES LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: 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

SPECIFICATIONS						
FREQUENCY (MHz):	(1575.42±13)	(1542.50±17.5)	(1642.50±17.5)	(1602-1616)	(1616-1626)	(1227.60±13)
GAIN (dBic)	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM	L2 GPS
@ 90° (Zenith):	+2.9	+0.7	-1.6	+0.3	-1.2	0.0
@ 10° Elevation:	-0.4	-2.8	-4.9	-3.1	-4.3	-2.4 to -6.3
@ 20° Elevation:	+0.5	-1.7	-3.5	-1.7	-3.0	-1.8 to -4.8
@ 30° Elevation:	+1.7	-0.7	-2.4	-0.7	-1.9	-1.3 to -3.4
@ 45° Elevation:	+2.4	+0.2	-2.3	-0.1	-1.8	-0.5 to -1.5
@ 70° Elevation:	+2.3	+0.6	-2.1	+0.2	-1.6	0.0 to -0.5
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					

ELECTRICAL:

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: 4.5" Long Flexible Cable with Right Angle MMCX Connector (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	REV	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	QTY
1	1						1
-2	-1						1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .001 .010 ± .005

TOLERANCE .3MM PER ANSI Y14.5

MATERIAL SPECIFICATIONS SHALL BE TO THE FOLLOWING UNLESS OTHERWISE SPECIFIED

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA	
ORDERED BY: M. BDAS Aug-15-03	DESIGNED BY: S. HUYNH Aug-15-03
HANDHELD L1/L2 GPS/INMARSAT/GLONASS/IRIDIUM ANTENNA	
D3CVE13D1216X-4.5MM-3-2	
SCALE 1/1	SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas