



FAA Approved Facility

GPS/RHCP-Inmarsat/Iridium Antennas, P/N: 2G1216P-MX-X or LHCP-Thuraya only Antennas, P/N: 2T1516P-MX-X 2.6" Diameter, Flat, Back, Magnetic Mount, Side Connector Configurations

Antenna Mounts/Adapters: <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>

NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS UNCLASSIFIED TECHNICAL DATA. REPRODUCTION OF THIS DATA IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF ANTCOM CORPORATION. THIS DATA IS LOANED TO YOU BY ANTCOM CORPORATION FOR YOUR USE ONLY AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANTCOM CORPORATION IS NOT RESPONSIBLE FOR ANY REPRODUCTION OR TRANSMISSION OF THIS DATA IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF ANTCOM CORPORATION.

MECHANICAL:
SIZE: DIAMETER: 2.60 in. [66.04 mm]
HEIGHT: 0.657 in. [16.69 mm], .499 in. [12.67 mm] (No Radome option)
WEIGHT: 7.00 oz. [0.198 Kg], 4.00 oz. [0.113 Kg] (WITHOUT MAGNET)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
CONNECTOR: SMA FEMALE (OPTION: 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 SEALEDFEDERAL & 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

OPTIONAL MOUNTING:
4x6-32 SCREWS, 0.160" Deep & GASKET (No Mag. Option)

MAGNETIC MOUNT OPTION

NAMEPLATE APPROXIMATE LOCATION

FEMALE SMA CONNECTOR (OPTION: TNC, N, N Bulkhead MCX, MMCX, or Cable)

ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

SIZE: FREQ. BAND: LNA:
1: 2" SQ 1215: L1/L2 A: WITH LNA
1.9"-1.9" SQ 15: L1 ONLY AL: WITH LNA/LIMITER
2: 2.6" DIA 1216: L1/L2 & P: WITHOUT LNA
3: 3.5" DIA. RX/TX INMARSAT
4: MINI ARINC GLONASS/IRIDIUM

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS: DECIMALS: ANGLES:
± 1/84 ± .005 ± 1'

TOLERANCE 5% PER ANG W/L S
BREAK ALL HIDDEN
BREAK INTERNAL EDGES .005 TO .015
CHAMFER .005 TO .015
DATE ON A COPY PER ISO 9001:2008
MACHINED SURFACES

DO NOT SCALE DRAWING

SPECIFICATIONS		REVISIONS			
ZONE	REV	DESCRIPTION	DATE	APPROVED	

ELECTRICAL:	L1/L2 GPS		Rx/Tx INMARSAT/GLONASS/IRIDIUM		
	L1: (1575.42 ±12)	L2: (1227.60 ±12)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1626)
FREQUENCY (MHz):	3.5" Dia. GP	4 ft G.P.	3.5" Dia. GP	4 ft G.P.	3.5" Dia. GP
ANTENNA GAIN (dBic):	+ 5.5	+ 4.5	+ 3.3	+ 4.9	+ 4.3
@ 90 ° (ZENITH):	+ 3.1	+ 3.1	+ 3.1	+ 3.4	+ 4.3
@ 10 ° Elevation:	- 1.2	- 1.4	- 3.8	- 3.6	- 3.7
@ 20 ° Elevation:	+ 0.3	+ 1.4	- 2.0	- 0.1	- 2.0
@ 30 ° Elevation:	+ 1.8	+ 2.2	- 0.5	- 1.8	- 1.3
@ 60 - 90 ° Elevation:	> 4.8	> 3.8	> 2.7	> 3.0	> 2.0
BEAM WIDTH (3dB):	106 Deg.	130 Deg.	106 Deg.	106 Deg.	106 Deg.
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP				
VSWR:	< 1.5:1				
IMPEDANCE:	50 ohms				
AXIAL RATIO:	2 dB				
LIGHTNING PROTECTION:	DC GROUNDING				
POWER HANDLING:	200 Watts CW (WITHOUT LNA)				

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	TEST
1	ADHESIVE GASKET	12345G-3M-1G				5
1						3
1						2
1						1
-2						

ANTCOM CORP. TORRANCE, CALIFORNIA

2.6" Dia. Magnetic Mount, L1/L2 GPS/INMARSAT/GLONASS/IRIDIUM ANTENNA

D3CVE1 2G1216P-MS-3

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas