



FAA Approved Facility

2-Ports, L1/L2 GPS/RHCP-Inmarsat/Iridium & LHCP-Thuraya Antenna,

P/N: 2G1216RL-P-MSS-X,

2.6" Diameter, Magnetic Mount, Side Connector Configuration

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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Optional Mounting:
4x6-32 SCREWS, 0.160" Deep & GASKET (No Mag. Option) 90° Apart on 1.153" Radius.

NAMEPLATE APPROXIMATE LOCATION

REMOVABLE MAGNETIC MOUNT

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

P/N: 2G1216RL-P-MSS-3

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

NOTES: UNLESS OTHERWISE SPECIFIED:

SIZE	FREQ. BAND	POLARIZATION	LNA
1/2" SQ	1215:L1/L2	RR: RHCP/RHCP	A: WITHLNA
1.9: 1.9" SQ	15: L1 ONLY	RL: RHCP/LHCP	AL: WITHLNA/LIMITTER
2: 2.6" DIA	1216: L1/L2 &	LL: LHCP/LHCP	P: WITHOUTLNA
3: 3.5" DIA	RX/TX INMARSAT		PL: WITHOUTLNA AND THINNER(0.58" THICK)
4: MINIARINC	GLONASS/IRIDIUM		

CABLE LENGTH	RHCP/LHCP CON.	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: No Radome	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

SPECIFICATIONS

ELECTRICAL:

FREQUENCY(MHZ):	L1/L2 GPS				Rx/Tx INMARSAT/THURAYA/GLONASS/IRIDIUM		
	L1: (1575.42 ±12)	L2: (1227.60 ±12)	3.5" Dia. GP	4 ft G.P.	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1626)
ANTENNA GAIN(dBic):	3.5" Dia. GP	4 ft G.P.	3.5" Dia. GP	4 ft G.P.	3.5" Dia. GP	Free Space	3.5" Dia. GP
@ 90° (ZENITH):	+5.5	+4.5	+3.3	+4.9	+3.1	+3.4	+4.3
@ 10° Elevation:	-1.2	-1.4	-3.8	-3.6	-3.7	-3.1	-2.2
@ 20° Elevation:	+0.3	+1.4	-2.0	-0.1	-2.0	-1.1	-0.6
@ 30° Elevation:	+1.8	+2.2	-0.5	-1.8	-1.3	0.0	+0.8
@ 60 - 90° Elevation:	>4.8	>3.8	>2.7	>3.0	>2.0	>+2.6	>+3.5
BEAMWIDTH(3dB):	106 Deg.	130 Deg.	106 Deg.	75 Deg.	106 Deg.	106 Deg.	106 Deg.
RADIATION PATTERN:	HEMISPHERICAL				HEMISPHERICAL		
POLARIZATION:	RHCP				RHCP/LHCP		
VSWR:	< 1.5:1						
IMPEDANCE:	50 ohms						
AXIAL RATIO:	2 dB						
LIGHTNING PROTECTION:	DC GROUNDING						
POWER HANDLING:	200 Watts CW (WITHOUT LNA)						

MECHANICAL:

SIZE: DIAMETER: 2.60 in. [66.04 mm]
HEIGHT: 0.657 in. [16.69 mm], .499 in. [12.67mm] (No Radome option)

WEIGHT: 7.00 oz. [0.198 Kg], 4.00 oz. [0.113 Kg] (WITHOUT MAGNET)

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: 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 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

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REV NO
1	ADHESIVE GASKET	12345G-3M-1G				5
1						3
1						2
1						1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 .015 .001 ± 1°

TOLERANCE SURF PER ANSI Y14.5
FINISH: ALL SURF
REL. SURF. FINISH: 320 TO .015
SURF. FINISH: 320 TO .015
MACHINED SURFACES TO .0005

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
2.6" Dia. Magnetic Mount, RHCP/LHCP L1/L2 GPS/INMARSAT/THURAYA GLONASS/IRIDIUM ANTENNA

DESIGNED BY: M. BOAS OCT-30-03
CHECKED BY: S. HUYNH OCT-30-03
APPROVED BY: S. HUYNH OCT-30-03
GAD FILE NO: []

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas