



FAA Approved Facility

1-Port Switch able L1/L2 GPS/RHCP-Inmarsat/Iridium & LHCP-Thuraya Antenna, P/N: 1G1216RLS-P-XS-X

2" Square, Back Mount, Bottom Connector Configuration

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>

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]
 HEIGHT: 0.657 in. [16.69 mm], .499 in. [12.67mm] (No Radome option)

WEIGHT: 2.88 oz. (82 g)

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 T

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, D0-228, MIL-C-5541,
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

SPECIFICATIONS

ELECTRICAL:

	L1/L2 GPS		RHCP/LHCP-BAND INMARSAT				
	L1: (1575.42 ±12)	L2: (1227.60 ±12)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1626)	(1602-1626)	
FREQUENCY (MHz):	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
ANTENNA GAIN (dBic):	+5.5	+4.5	+3.3	+4.9	+3.1	+3.4	+4.3
@ 90 ° (ZENITH):	-1.2	-1.4	-3.8	-3.6	-3.7	-3.1	-2.2
@ 10 ° Elevation:	+0.3	+1.4	-2.0	-0.1	-2.0	-1.1	-0.6
@ 20 ° Elevation:	+1.8	+2.2	-0.5	-1.8	-1.3	0.0	+0.8
@ 30 ° Elevation:	> 4.8	> 3.8	> 2.7	> 3.0	> 2.0	>+2.6	>+3.5
@ 60 - 90 ° Elevation:	106 Deg.	130 Deg.	106 Deg.	75 Deg.	106 Deg.	106 Deg.	106 Deg.
BEAM WIDTH (3dB):	HEMISPHERICAL		HEMISPHERICAL				
RADIATION PATTERN:	RHCP		RHCP/LHCP				
POLARIZATION:	RHCP		RHCP/LHCP				
VSWR:	< 1.5:1						
IMPEDANCE:	50 ohms						
AXIAL RATIO:	2 dB						
LIGHTNING PROTECTION:	DC GROUNDING						
POWER HANDLING:	200 Watts CW						

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1			

UNLESS OTHERWISE SPECIFIED

FRACTIONS: DECIMALS: ANGLES: TOLERANCES: FINISH: SURFACE: DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

2.0" SQUARE L1/L2 GPS & L-BAND INMARSAT ANTENNA WITH SWITCHABLE RHCP/LHCP

1G1216RLS-P-XS-3

SCALE: 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas