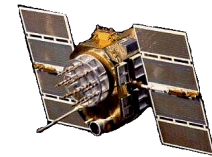




# Combined Inmarsat & L1/L2 GPS Antennas, P/N: 2G1216P-NS-3

## 2.6" Diameter, Shoulder Mount Configurations



ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <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](mailto:antennas@antcom.com) . <http://www.antcom.com>

Technical drawings showing top, side, and bottom views of the antenna. Dimensions include diameter (2.600 in), height (0.657 in with radome, 0.499 in without), and mounting hole spacing (4x1.153 in).

### SPECIFICATIONS

**ELECTRICAL:**

FREQUENCY (MHz):	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)
ANTENNA GAIN (dBic):	3.5" Dia. GP +5.5	4 ft G.P. +4.5	3.5" Dia. GP +3.3	4 ft G.P. +4.9	3.5" Dia. GP +4.3
@ 90° (ZENITH):	+5.5	+4.5	+3.3	+4.9	+4.3
@ 10° Elevation:	-1.2	-1.4	-3.8	-3.6	-2.2
@ 20° Elevation:	+0.3	+1.4	-2.0	-0.1	-0.6
@ 30° Elevation:	+1.8	+2.2	-0.5	-1.8	+0.8
@ 60 - 90° Elevation:	> 4.8	> 3.8	> 2.7	> 3.0	> +3.5
BEAM WIDTH (3dB):	106 Deg.	130 Deg.	106 Deg.	75 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)				

**MECHANICAL:**

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

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 RETARDAN T

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

**ENVIRONMENTAL:**

TEMPERATURE: -55 °C TO +85 °C  
 ALTITUDE: 70,000 ft  
 VIBRATION: 30 G's  
 LEAKAGE: HERMETICALLY SEALED

**FEDERAL & MILITARY SPECIFICATIONS:**  
 DESIGN TO: MIL-STD-C144, DO-160D, DO-228, MIL-C-5541,  
 MIL-STD-883C, MIL-STD-883D, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

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

**NOTES:** UNLESS OTHERWISE SPECIFIED:  
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
 2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED

**P/N: 2G1216P-NS-3**

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" DIA	1215: L1/L2 & P	P: WITHOUT LNA
3: 3.5" DIA	RX/TX INMARSAT & GLONASS/IRIDIUM	PL: WITHOUT LNA and THINNER (0.58" THICK)
4: MINI ARINC		

**CABLES LENGTH - CONNECTOR - COLOR:**

CABLES LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: No Magnet	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

**ANTCOM CORP.** TORRANCE, CALIFORNIA

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

**D3CVE1 2G1216P-NS-3**

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas