



FAA Approved Facility

GPS/RHCP-Inmarsat/Iridium Antennas, P/N: 3G1216P-NX-X or LHCP-Thuraya only Antennas, P/N: 3T1516P-NX-X 3.5" Diameter, Flat, Front/Back Mount, Side Connector Configuration

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



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SPECIFICATIONS

ELECTRICAL:	L1/L2 GPS		Rx/Tx INMARSAT/GLONASS/IRIDIUM		
	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space
FREQUENCY(MHz):	L1: (1575.42 ±12)	L2: (1227.60 ±12)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1626)
ANTENNA GAIN (dBic):	+5.5	+4.5	+3.3	+4.9	+3.1
@ 90° (ZENITH):	+3.3	+4.5	+3.3	+4.9	+3.1
@ 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
BEAMWIDTH(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				
LNA OPTION					
LNA GAIN:	35 dB				
LNA NOISE FIGURE:	3.0 dB				
LNA P1dB Out:	+13 dBm				
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA				
REJECTION @ (-50/+50) MHz:	-40 dB / -40 dB				
@ (-100/+100) MHz:	< -65 dB				
POWER HANDLING:	200 Watts CW (WITHOUT LNA), 1 Watt CW (WITH LNA)				

MECHANICAL:

SIZE: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 0.845 in. [21.46 mm]

WEIGHT: 5.15 oz. (.146 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDIUM 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

4	-	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	5
1	1	ADHESIVE GASKET	12345G-3M-3G	-	1

MECHANICAL (continued):

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

MAGNETIC MOUNT IS AVAILABLE

NAMEPLATE APPROXIMATE LOCATION

4x 0.190-32UNC-2B
0.250" Deep, Equally Spaced on
1.375" Rad. for Optional Mounting

(Ø.157 [Ø.399]) 8-32,
FOR MAGNETIC MOUNT OPTION

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
1			

SIZE	FREQ. BAND	LNA:
1: 2" SQ	1215: L1/L2	A: WITH LNA
1.8: 1.9" SQ	15: L1 ONLY	AL: WITH LNA LIMITER
2: 2" DIA.	1216: L1/L2 & P:	WITHOUT LNA
3: 3.5" DIA.	RX/TX INMARSAT	
4: MINI ARINC	GLONASS/IRIDIUM	

P/N: 3G1216P-NS-3

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #7925 PER FED-STD-595B
M: MAG. N: No Mag	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: NB: N, N-Bulkhead	-3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB, TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia., Side Con. L1/L2
GPS/INMARSAT/GLONASS/
IRIDIUM ANTENNA

DRAWN: M. BGAS, Oct-29-03
CHECKED: S. HUYNH, Oct-29-03
DATE: 10/29/03

SCALE: 1/1 SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas