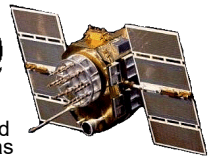


**New 3-Ports (Active L1/L2 GPS), (RHCP-Inmarsat/Iridium) & (LHCP-Thuraya/Tx-Globalstar) Antenna, P/N: 5G1216RL-AP-XSTT-1 (5.04"x2.2"x0.9"), Flat, Top/Pipe Mount, Bottom Connector Configuration**



FAA Approved TSO Antennas



ANTCOM CORPORATION . 367 Van Ness Way, #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>

### SPECIFICATIONS

	L1/L2 GPS		Rx Inmarsat OmniStar, L6 Galileo, B1 Compass(RHCP)	IRIDIUM L1 GLONASS(RHCP)	Tx Inmarsat (RHCP)					
	L2	L1	& Rx-Thuraya (LHCP)	& Tx-Globalstar(LHCP)	& Tx-Thuraya (LHCP)					
FREQUENCY:	(1227.60 ±15) MHz	(1575.42 ±15) MHz	(1542.5 ± 17.5) MHz	(1609 -1626) MHz	(1642.5 ± 17.5) MHz					
RADIATION PATTERN:	HEMISPHERICAL									
VSWR:	< 2.0:1									
IMPEDANCE	50 ohms									
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90° (ZENITH):	+1.8	+5.3	+4.6	+2.9	+3.3	+0.8	+6.4	+3.9	+8.0	+4.1
@ 10° Elevation:	-4.2	-2.3	-2.5	-1.8	-3.9	-5.0	-0.7	-2.3	+1.0	-2.4
@ 20° Elevation:	-2.9	+0.4	-1.1	+0.7	-2.3	-1.2	+0.7	+0.9	+2.3	+0.7
@ 30° Elevation:	-2.0	+2.3	+0.5	+1.7	-1.1	+0.4	+1.9	+2.2	+3.4	+1.7
@ 60 - 90° Elevation:	> +0.9	> +3.2	> +3.6	> +2.1	> +2.4	> +1.4	> +5.6	> +2.5	> +6.9	> +1.9
BEAM WIDTH (3dB):	108 Deg.	120 Deg.	103 Deg.	146 Deg.	100 Deg.	135 Deg.	92 Deg.	140 Deg.	90 Deg.	130 Deg.
AXIAL RATIO:	2.0 dB		2.0 dB		1.0 dB		1.5 dB		2.0 dB	
LIGHTNING PROTECTION:	DC GROUNDING									
<b>LNA OPTION:</b>	33 dB Gain									
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:	1 Watt CW (WITH LNA)					200 Watts CW				

**ELECTRICAL:**

**MECHANICAL:**

SIZE: WIDTH: 2.214 in. [56.24 mm], LENGTH: 5.040 in [128.02 mm], HEIGHT: 0.900 in. [22.86 mm]

WEIGHT: 10.4 oz. (295g)

FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL

MATERIAL: 6061-T6ALUMINUMALLOY BASE  
COMPOSITE RADOME,IMPACT,ABRASION,UV, SOLVENT, SKYDROLRESISTANCEAND 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: HERMETICALLYSEALED

**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

**CONFIGURATION:**

1: 2" SQ. (FLAT)

1.9: 1.9" SQ. (FLAT)

2: 2.6" DIA. (FLAT)

3: 3.5" DIA. (FLAT)

4: MINI ARINC (FLAT)

53: (HELIX ROD)

5B: (HELIX BLADE)

3D: (HELIX HANDHELD)

**FREQ. BAND:**

1516 L1 GPS & (Inmarsat/Iridium) & (Thuraya/Tx-Globalstar)

1216 L1/L2 GPS & (Inmarsat/Iridium) & (Thuraya/Tx-Globalstar)

**GPS LNA:**

A: WITH LNA

P: WITHOUT LNA

A2: WITH 20dB LNA

**CABLE'S LENGTH:**

X: NO CABLE

M: WITH MAG. MOUNT

#: CABLE LENGTH (IN)

R: RIGHT ANGLE CON.

**GPS/Inmarsat/Thuraya Connector:**

S: SMA

M: MCX/ MM/ MMCX

N: N: NB: N-Bulkhead

T: TNC: TB: TNC- Bulkhead

B: BNC FEMALE

**COLOR**

1: GLOSS WHITE #17925 PER FED-STD-595B

2: LUSTERLESS GRAY #36320 PER FED-STD-595B

3: OLIVE DRAB GREEN #34031 PER FED-STD-595B

4: LUSTERLESS BLACK #37038 PER FED-STD-595B

**P/N: 5G1216RL-AP-XSTT-1**

NOTES: UNLESS OTHERWISE SPECIFIED:  
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

QUANTITY REQD	DESCRIPTION	PARTS LIST	ITEM NO.
4	MONTING SCREWS: 10-32, 100" Flat Head, 1"	J507C1032R16	2
1	O-RING	2-038-N756-75	1

UNLESS OTHERWISE SPECIFIED		ANTCOM CORP.	
DIMENSIONS ARE IN INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED	TORRANCE, CALIFORNIA	
FRACTIONS	DECIMALS	<p>Combined Avionics</p> <p>GPS &amp; (RHCP-Inmarsat/Iridium) &amp; (LHCP-Thuraya/Tx-Globalstar) Antenna</p> <p>DESIGN: 3CVE1</p> <p>5G1216RL-AP-XSTT-1</p> <p>SCALE 1/1</p> <p>SHEET 1 OF 1</p>	
± 1/16"	± .005"		
TOLERANCE SURF PER ANSI Y14.5	REMOVE ALL SURF. BREAKS EXCEPT DIMS .005 TO .015	<p>APPROVED: S. HUYNH</p> <p>DATE: FEB-17-09</p> <p>DO NOT SCALE DRAWING</p>	
FILETS & CHAMF PER MIL-C-8879	DATE ON A DIMENSION & 2X .005		

NMO Connector Option is Now Available for Some Antennas