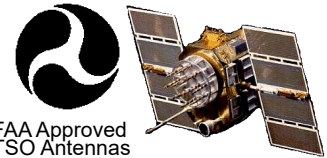




**New 4-Ports Active L1/L2 GPS, Passive GSM, Passive Rx/Tx-Inmarsat/Iridium & Passive Rx/Tx-Thuraya/Tx-Globalstar Antenna, P/N: 5G09L1L2TIR-PAP2-XS4-2**  
**Underwater Application, P/N: 5G09L1L2TIR-PAP2-XS4-2-U**  
 (5.04"x2.2"x0.9"), Flat, Top/Pipe Mount, Bottom Connector Configuration



ISO 9001:2008/FAA Approved Facility Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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>

7 6 5 4 3 1

5.040 [128.02]  
4.237 [107.63]  
4X R.101 [R2.55] THRU  
∅.385 [∅9.78] X 100"

2.214 [56.24]  
1.600 [40.64]  
.900 [22.86]  
.600 [15.24]  
1.656 [42.07]  
O-RING P/N: 2-038-N756-75

4X SMA FEMALE CONNECTOR  
(OPTION: QMA, TNC, N, SMB, MCX, or MMCX)

GSM T GPS IR

**SPECIFICATIONS**

**ELECTRICAL:**

	L1/L2 GPS		Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP)		IRIDIUM, L1 GLONASS (RHCP)		Tx Inmarsat (RHCP)		GSM	
	L2	L1	& Rx-Thuraya (LHCP)	& Rx-Thuraya (LHCP)	& Tx-Globalstar (LHCP)	& Tx-Thuraya (LHCP)	& Tx-Thuraya (LHCP)	& Tx-Thuraya (LHCP)	Vehicle / Horizontal (876-960) MHz	
FREQUENCY:	(1227.60 ±15) MHz	(1575.42 ±15) MHz	(1542.5 ± 17.5) MHz	(1542.5 ± 17.5) MHz	(1609 -1626) MHz	(1642.5 ± 17.5) MHz	(1642.5 ± 17.5) MHz	(1642.5 ± 17.5) MHz		
RADIATION PATTERN:	HEMISPHERICAL									OMNI
VSWR:	< 2.0:1									
IMPEDANCE:	50 ohms									
ANTENNA GAIN (dBi):	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									
LNA NOISE FIGURE:	33 dB Gain									
LNA GAIN:	3.0 dB									
LNA P1dB Out:	+13 dBm									
LNA DC POWER:	2.5V/20mA, 3V/28mA, 3.3V/35mA, (2.5-24)V/I<50mA									
REJECTION @ (-50/+50) MHz:	-40 dB / -40 dB									
@ (-100/+100) MHz:	< -65 dB									
POWER HANDLING:	1 Watt CW (WITH LNA)					200 Watts CW				

**MECHANICAL:**

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

WEIGHT: 10.4 oz. (295g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
BASE IRIDIUM PER MIL-C-5441F

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

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

**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED

**QUANTITY RECORD**

QUANTITY	DESCRIPTION	PARTS LIST	PART NO	FINISH	U/LY NO
4	MONTING SCREWS: 10-32, 100" Flat Head, 1"		J507C1032R16		2
1	O-RING		2-038-N756-75		1

**ANTCOM CORP.** TORRANCE CALIFORNIA

Combined Avionics/GPS, GSM (RHCP-Thuraya/Tx-Globalstar) Antenna

Part No: 5G09L1L2TIR-PAP2-XS4-2

Scale: 1/1

Sheet: 1 OF 1

NMO Connector Option is Now Available for Some Antennas

**P/N: 5G09L1L2TIR-PAP2-XS4-2**