



FAA Approved Facility

GPS+GSM+Iridium or GPS+Dual Iridium Antenna

P/N: 5G091516LRR-AP-XTT-1 (GSM/L1-GPS/Iridium with all TNC Connectors)

P/N: 5G091216LRR-AP-XTT-1 (GSM/L1/L2-GPS/Iridium with all TNC Connectors)

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: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66mm], HEIGHT: 0.721 in. [18.31mm]

WEIGHT: < 8.0 oz. (226g)

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

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: GPS: TNC-F (Blue) IRIDIUM: TNC-F (Red) X.M: TNC-F (Green) (OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead, BNC, MCX, MMCX, or Cable)

MOUNTING: FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]

ALTITUDE: 70,000ft.

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

ELECTRICAL:

	GPS (L1 or L1/L2, See P/N in Bottom Table)		IRIDIUM		GSM	
FREQUENCY:	L1: (1575.4 ±13)	L2: (1227.6 ±13) MHz	(1610.0 - 1626.5) MHz		(See Bottom Table)	
RADIATION PATTERN:	HEMISPHERICAL		HEMISPHERICAL		Verticle / Horizontal	
POLARIZATION:	RHCP		RHCP		OMNI	
VSWR:	< 1.5:1		< 1.5:1		< 2:1	
GAIN (dB):	F.S.	4 ft G.P	F.S.	4 ft G.P	F.S	
@ 90° (Zenith):	+ 4.6	+ 2.9	+ 1.8	+ 5.3	+4.9	+5.0
@ 10° Elevation:	- 2.5	- 1.8	- 4.2	- 2.3	-1.0	-2.5
@ 20° Elevation:	- 1.1	+ 0.7	- 2.9	+ 0.4	+1.5	-0.5
@ 30° Elevation:	+ 0.5	+ 1.7	- 2.0	+ 2.3	+2.4	+1.0
@ 60° to 90° Elevation:	> 3.6	> 2.1	> 0.9	> 3.2	>+3.3	>+2.7
BEAM WIDTH (3dB):	103°	146°	108°	74°	129°	98°-106°
AXIAL RATIO @ Zenith:	2 dB		2 dB		2 dB	
POWER HANDLING:	1 Watt		30 W		30 W	
LIGHTNING PROTECTION:	DC GROUNDING		DC GROUNDING		DC GROUNDING	
FILTER:	2-2-POL		2-2-POL		2-2-POL	
LNA GAIN:	(33.0+/-1.0) dB		N/A		N/A	
LNA P 1dB Out:	+16 dBm		N/A		N/A	
LNA NOISE FIGURE:	2.9 dB (Filter loss is Included)		N/A		N/A	
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (30 TO 50) mA		N/A		N/A	

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

QUANTITY

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	UNIT
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1	O-RING	2-038-N756-75	-	-	1

UNLESS OTHERWISE SPECIFIED

FRACTIONS: DECIMALS AND ANGLES

TOLERANCE: ± 1/64

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES

REMOVE ALL BURRS

BRACED DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED

MADE IN USA

DATE: July-12-09

DESIGNED BY: S. HUYNH

CHECKED BY: S. HUYNH

DATE: July-12-09

SCALE: 1/1

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

FLAT FIXED MOUNT GSM/GPS/IRIDIUM ANTENNA

5GXX1X16LRR-AP-XXXX-X

SHEET 1 OF 1

Example P/N: 5G091516LRR-AP-XTT-1

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

NMO Connector is Now Available for Some Antennas