



ISO 9001:2008/FAA Approved Facility

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

GPS+GSM+Iridium or GPS+Dual Iridium Antenna

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

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



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . 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. (226 g)

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), XM: TNC-F (Green) (OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead, BNC, MCX, MMCX, or Cable)

MOUNTING: FLAT FIXED MOUNT; O-RINGS & 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						
POLARIZATION:	RHCP						
VSWR:	< 1.5:1						
GAIN (dB):	F.S.	4 ft G.P	F.S.	4 ft G.P	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						
POWER HANDLING:	1 Watt						
LIGHTNING PROTECTION:	DC GROUNDIN G						
FILTER:	2 2-POL						
LNA GAIN:	(33.0±1.0) dB						
LNA P 1dB Out:	+16 dBm						
LNA NOISE FIGURE:	2.9 dB (Filter loss is included)						
VOLTAGE/CURRENT:	(±2.8 TO +28) Volts DC / (30 TO 50) mA						

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

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CONFIGURATION:

CONFIGURATION	FREQ BAND	CABLE LENGTH	GSM/GPS/IRIDIUM CON.	COLOR
5G: (5.0x2.2)inRect.	08: CELLULAR (824-894MHz/US/Canada)	X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
	09: GSM (937.5-960MHz/Europe/Asia/Africa/M-East)	M: WITH MAG. MOUNT	M: MCX, MM, MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	18: DC S (1770-1880MHz/Europe/Asia/Africa/M-East)	#: CABLE LENGTH (IN)	N: N, NB: N Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	19: PCS (1850-1990MHz/US/Canada)	R: RIGHT ANGLE CON.	T: TNC, TB: TNC Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	04: QUAD BAND (All 4 bands above)		B: BNC Female	-5: TAN #: FS 23446 or 33446, FED-STD-595
	15: L1 GPS (1575±12) MHz			
	12: L1/L2 GPS (1575±12) (1227±12) MHz			

NOTES: UNLESS OTHERWISE SPECIFIED:

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

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

NMO Connector Option is Now Available for Some Antennas