



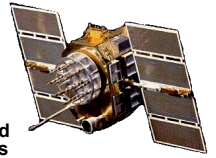
ISO 9001:2008/FAA Approved Facility

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)



FAA Approved
TSO Antennas



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>

5.026 [127.66]
2.200 [55.88]
4x.800 [20.32]
4x2.119 [53.82]
.721 [18.31]
4x ϕ .201 [ϕ 5.11]
 ϕ .385 [ϕ 9.78] X 100"
for 10-32 MOUNTING SCREWS

0.57" [14.53] (TNC), 0.72" [18.29] (N,N-Bulkhead)
0.357" [9.07] (SMA), 0.83" [21.00] (TNC-Bulkhead), 0.200" [5.08] (MCX)

.784 [19.91]
.148 [3.77]
.937 [23.80]
.143 [3.63]

GPS
GSM
IR
GPS
GSM
IR
GPS
GSM
IR

O-RING (2-038)

GPS: TNC Female (Blue)
(OPTION: SMA, N, BNC, MCX)
[+2.5 to +30] Volts DC

GSM
TNC Female (Green)
(OPTION: SMA, N, BNC, MCX)

IRIDIUM: TNC Female (Red)
(OPTION: SMA, N, BNC, MCX)

SPECIFICATIONS

ELECTRICAL:	GPS (L1 or L1/L2, See P/N in Bottom Table)		IRIDIUM		GSM	
	L1: (1575.4 ±13)	L2: (1227.6 ±13) MHz	(1610.0 - 1626.5) MHz		(See Bottom Table)	
FREQUENCY:						
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	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 GROUNDIN G		DC GROUNDIN G		DC GROUNDIN G	
FILTER:	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	

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

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REF
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1	O-RING	2-038-N756-75	-	-	3
					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE TO 1/64 ANGLES ARE TO 1/16

ANTCOM CORP. TORRANCE, CALIFORNIA

**FLAT FIXED MOUNT
GSM/GPS/IRIDIUM
ANTENNA**

REV: 3CVE1 5GXX1X16LRR-AP-XXXX-X

SCALE: 1/1

SHEET 1 OF 1

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

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

NMO Connector Option is Now Available for Some Antennas