



FAA Approved Facility

GPS/WSI/Inmarsat/Iridium Antenna, P/N: 5G151516RRR-AA-XTTT-X, or GPS/WSI/Thuraya Antenna, P/N: 5G151516RRL-AA-XTTT-X (5.03"x2.08"x0.69"), Flat or Pipe mount

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



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SPECIFICATIONS

	L1 GPS	IRIDIUM	WSI
FREQUENCY:	(1575.42 ±12) MHz	(1610.0 - 1626.5) MHz	(1555 +/- 17) MHz
RADIATION PATTERN:		HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	RHCP	RHCP	RHCP
VSWR:	< 1.5:1	< 1.5:1	< 1.5:1
GAIN (dB):	3.5" G.P	4 ft G.P.	F.S.
@ 90° (Zenith):	+4.1	+2.5	+5.0
@ 10° Elevation (Ave):	-3.5	-3.0	-2.5
@ 20° Elevation (Ave):	-2.1	-0.2	-0.5
@ 30° Elevation (Ave):	-0.8	+0.8	+1.0
@ 45° Elevation (Ave):	> 2.5	> 1.8	>+2.7
@ 70° Elevation (Ave):	> 2.5	> 1.8	>+2.7
AXIAL RATIO @ Zenith:	2 dB	2 dB	2 dB
POWER HANDLING:	1 Watt		1 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)		
FILTER (REJ. @1616 MHz):	> 40 dB		> 40 dB
LNA GAIN:	35 dB		32 dB
LNA NOISE FIGURE:	2.8 dB		2.8 dB
LNA VOLTAGE:	(+2.5 to +30) Volts DC FROM Rx RF CON.		(+2.5 to +30) Volts DC FROM Rx RF CON.
LNA DRAWING CURRENT:	< 35 mA		

ELECTRICAL:

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-5541
 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), WSI: TNC-F (Green) (OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead, 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

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

CONFIGURATION:

CONFIGURATION	FREQ BAND	GPS/WSI/LNA	CABLE LENGTH	GPS/IRIDIUM/WSI/LNA	COLOUR
1: 2" SQ. (FLAT)	1625: 1P/R	A: WITH LNA	X: NO CABLE	S: SMA-P PINS	1: GLOSS WHITE / 17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	25: RX ONLY	P: WITHOUT LNA	M: WITH MAG MOUNT	M: MCX/MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	16: TX ONLY		M: WITH MAG (IN)	N: N: NB: N-Bulkhead	3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	151623L1 GPS/IRIDIUM/XMSIRIUS		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	12151623L1/L2 GPS/IRIDIUM/XMORSIRIUS				
53: (HELIX ROD)	151615 GPS/IRIDIUM/WSI				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 FRACTIONS: DECIMALS: ANGLES
 ± 1/64 .005 .010 ± 2°
 TOLERANCE DIM PER AMS Y14.6
 BREAK EXTERNAL EDGES .005 TO .015
 FLASH & BURRS TO BE REMOVED
 DIMENSIONS ARE TO BE TAKEN ON A COMMON & OF .005
 MACHINED SURFACES
 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
FLAT FIXED MOUNT GPS/IRIDIUM/WSI ANTENNA

APPROVED: S. HUYNH DEC-13-02
 SHEET 1 OF 1

P/N: 5G151615RRR-AA-XTTT-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