



FAA Approved Facility

GPS/IRIDIUM/XM or SIRIUS Antenna, P/N: 5G151623RXX-AA-XTTT-X, or GPS/Thuraya/XM or SIRIUS Antenna, P/N: 5G151623RLX-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

ELECTRICAL:

	L1 GPS/L-Band (1575.42±12) MHz, (1555.00±17) MHz	IRIDIUM (1610.0 - 1626.5) MHz	XM, OR SIRIUS/RADIO (2338.75 +/- 10) MHz
FREQUENCY:	(1575.42±12) MHz, (1555.00±17) MHz	(1610.0 - 1626.5) MHz	(2338.75 +/- 10) MHz
RADIATION PATTERN:	(1555.00±17) MHz	HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	RHCP	RHCP	LHCP (XM), RHCP (SIRIUS)
VSWR:	< 1.5:1	< 1.5:1	< 1.5:1
GAIN (dB)	F.S. 4 ft G.P.	F.S. 4 ft G.P.	F.S. 4 ft G.P.
@ 90° (Zenith):	+4.6	+2.9	+4.9
@ 10° Elevation (Ave):	-2.5	-1.8	-2.4
@ 20° Elevation (Ave):	-1.1	+0.7	-0.8
@ 30° Elevation (Ave):	+0.5	+1.7	+0.8
@ 45° Elevation (Ave):	> 3.6	> 2.1	+2.8
@ 70° Elevation (Ave):	> 3.6	> 2.1	+4.6
AXIAL RATIO @ Zenith:	2 dB	2 dB	2 dB
POWER HANDLING:	1 Watt		1 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)		
FILTER (REJ. @ 1616MHz):			57 dB
REJECTION @ (-50/+50) MHz:	-45 dB / -70 dB		
@ (-100/+100) MHz:	< -65 dB		
LNA GAIN:	34 dB (P1dBout = +13 dBm)		(35 +/- 1) dB
LNA NOISE FIGURE:	2.4 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:	< 30 mA		< 38 mA

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in. [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]
< 8.0 oz. (226 g)

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, MCX, MMCX, or Cable)

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

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-35 °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, DO-226, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS: DECIMALS: ANGLES
± 1/64 ± .005 ± .010 ± .005 ± .010 ± .005 ± .010
BREAK EXTERNAL EDGES .005 TO .015
BREAK INTERNAL EDGES .005 TO .010
Screw threads per MIL-S-8879
DIN'S ON A CONFORM TO ISO
MACHINED SURFACES

ANTCOM CORP. TORRANCE, CALIFORNIA
FLAT FIXED MOUNT
GPS/IRIDIUM/XM (SIRIUS, or L-Band)
ANTENNA

DATE: 3CVE1 DRAWN BY: S. HUYNH
CAGE CODE: 3CVE1 DRAWN DATE: July-22-05
SCALE: 1/1 SHEET 1 OF 1

CONFIGURATION FREQ. BAND: GPS/XM LNA: CABLE'S LENGTH: GPS/IRIDIUM/XM CONN: GPS:

1: 2" SQ. (FLAT) R: SIRIUS X: NO CABLE S: SMA-F PINS C1: GLOSS WHITE #17925 PER FED-STD-595B

1.9: 1.9" SQ. (FLAT) L: XM M: WITH MAG. MOUNT M: MCX MM: MMCX C2: LUSTERLESS GRAY #36220 PER FED-STD-595B

2: 2.6" DIA. (FLAT) 151623: GPS/IRIDIUM/XM OR SIRIUS) # CABLE LENGTH (IN) N: N: NB: N-Bulkhead C3: OLIVE DRAB GREEN #34031 PER FED-STD-595B

3: 3.5" DIA. (FLAT) 151615: GPS/IRIDIUM/L-Band R: RIGHT ANGLE CON. T: TNC: TB: TNC- Bulkhead C4: LUSTERLESS BLACK #37038 PER FED-STD-595B

4: MINI ARINC (FLAT)

5G: (5.0x2.2) in Rect.

5B: (HELIX BLADE)

5D: (HELIX HANDHELD)

P/N: 5G1516XXRRX-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