



# RHCP RX-Inmarsat/GPS & LHCP Thuraya/TX-Globalstar Antenna

## P/N: 1.5G1516RL-P-XSS-4

### (3.6"x 1.5"x 0.6"), Front Mount (Other Configurations are Available)



ISO 9001:2008/FAA Approved Facility

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

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**SPECIFICATIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED

REVISIONS

**ELECTRICAL:**

	Thuraya & Tx-Globalstar (1610.0 - 1626.5) MHz	Rx-Inmarsat/GPS (1525 - 1580) MHz
<b>FREQUENCY:</b>		
<b>RADIATION PATTERN:</b>	HEMISPHERICAL	HEMISPHERICAL
<b>POLARIZATION:</b>	LHCP	RHCP
<b>VSWR:</b>	< 1.5:1	< 1.5:1
<b>GAIN (dB):</b>	4 ft G.P. Free Space	F.S. 4 ft G.P
@ 90° (Zenith):	+4.9 +5.0	+4.6 +2.9
@ 10° Elevation:	-1.0 -2.5	-2.5 -1.8
@ 20° Elevation:	+1.5 -0.5	-1.1 +0.7
@ 30° Elevation:	+2.4 +1.0	+0.5 +1.7
@ 60° to 90° Elevation:	>+3.3 >+2.7	> 3.6 > 2.1
<b>BEAM WIDTH (3dB):</b>	129 ° 98 °-106 °	103 ° 146 °
<b>AXIAL RATIO @ Zenith:</b>	2 dB	2 dB
<b>POWER HANDLING:</b>	30 W	1 Watt
<b>LIGHTNING PROTECTION:</b>	DC GROUNDING	DC GROUNDING
<b>LNA OPTION:</b>		
<b>LNA GAIN:</b>	N/A	(33.0+/-1.0) dB, 20dB (-A2- Option)
<b>LNA P 1dB Out:</b>	N/A	+16 dBm
<b>LNA NOISE FIGURE:</b>	N/A	2.8 dB (Filter loss is Included)
<b>VOLTAGE/CURRENT:</b>	N/A	(+2.8 TO +28) Volts DC / (30 TO 50) mA

**MECHANICAL:**

**SIZE:** WIDTH: 1.56 in. [39.7 mm], LENGTH: 3.64 in [92.5 mm], HEIGHT: 0.63 in. [16.0 mm]

**WEIGHT:** 3.5 oz. (99 g)

**FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING

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

**CONNECTOR:** Thuraya/Tx-Globalstar: SMA FEMALE (J1, Red); GPS/Rx-Inmarsat: SMA FEMALE (J2, Blue). Available in Other Con. Types

**MOUNTING:** FLAT FRONT (2 x 6-32 SCREWS), BACK (4 x 2-56 SCREWS), or FLUSH MAGNET

**ENVIRONMENTAL:**

**TEMPERATURE:** -67 °F TO +185 °F [-55 °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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

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Dimensions: 3.64 [92.51] (Length), 1.564 [39.73] (Width), 0.631 [16.03] (Height), R.407 [R10.34] (Radius), 2x8-32 Thru. Tap for Optional Mounting, 2xø.281 [ø7.14] 82° C-Sink for Optional 6-32 Flat Head Mounting Screws, .143 [3.63] (Mounting Hole Offset), 10x .593 [15.06] (Mounting Hole Spacing), 102 [2.59] (Mounting Hole Diameter), 2.259 [57.8] (Mounting Hole Depth), 0.896 [22.76] (Mounting Hole Spacing), 4x.446 [11.33] (Mounting Hole Diameter), .937 [23.80] (Mounting Hole Spacing), 4x1.632 [41.45] (Mounting Hole Spacing).

Thuraya/Tx-Globalstar: SMA FEMALE with 20in Cable, (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

GPS/Rx-Inmarsat: SMA FEMALE with 20in Cable, (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

**(+2.5 to +30) Volts DC (Active)**

Optional Mounting: 8X 2-56 Top X 0.118 Deep

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
4					5
1					3
1					1

CONFIGURATION:	FREQ. BAND 1/2 (MHz):	BAND 1/2 Polarizations:	GPS LNA:	CABLE'S LENGTH:	GPS/IRIDIUM CONNECTOR:
1: 2" SQ. (FLAT)	1516: Rx-Inmarsat/GPS & Thuraya/Tx-Globalstar	RL: RHCP/LHCP	A: WITH 33dB LNA	X: NO CABLE	S: SMA; P: PINS
1.9: 1.9" SQ. (FLAT)		LR: LHCP/RHCP	P: WITHOUT LNA	MN: Flush Mag. Mount	M: MCX; MM: MMCX
2: 2.6" DIA. (FLAT)	1216: Rx-Inmarsat/L1/L2 GPS & Thuraya/Tx-Globalstar	RR: RHCP/RHCP	A1: WITH 12dB LNA	#: Cable Length (in)	N: N; NB: N-Bulkhead
3: 3.5" DIA. (FLAT)		LL: LHCP/LHCP	A2: WITH 20dB LNA	IR: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead
4: MINI ARING (FLAT)					
5: (HELIX ROD)	XXXX: Any other 2 bands				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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**ANTCOM CORP.** TORRANCE, CALIFORNIA

Low Profile Ruggedized Thuraya/Tx-Globalstar & Rx-Inmarsat/GPS Antenna

REV	DATE	DESCRIPTION
D	3CVE1	1.5G1516RL-X-XSS-4

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas