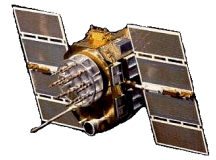




# RHCP RX-Inmarsat/GPS & LHCP Thuraya/TX-Globalstar Antenna

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>

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: [antennas@antcom.com](mailto:antennas@antcom.com) . <http://www.antcom.com>

**NOTICE OF PROPRIETARY RIGHTS**  
THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY FORBIDDEN UNLESS YOU AGREE THAT ITS USE IS LIMITED TO USE WHEN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURERS OR PROCESSING LEVELS, AND OTHER USE IS EXPRESSLY FORBIDDEN UNLESS YOU AGREE TO BE EXPRESSLY AUTHORIZED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

2x8-32 Thru. Tap for Optional Mounting

3.642 [92.51]

R.407 [R10.34]

1.564 [39.73]

2xø.281 [Ø7.14] 82' C-Sink for Optional 6-32 Flat Head Mounting Screws

.631 [16.03]

10x .593 [15.06]

4x.446 [11.33]

4x1.632 [41.45]

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 Tap X 0.118 Deep

Thuraya/Tx-Globalstar

GPS/Rx-Inmarsat

CONFIGURATION: 1: 2" SQ. (FLAT) 1.9: 1.9" SQ. (FLAT) 2: 2.6" DIA. (FLAT) 3: 3.5" DIA. (FLAT) 4: MINI ARINC (FLAT) 5: (HELIX ROD) 5B: (HELIX BLADE) 3D: (HELIX HANDHELD)

FREQ. BAND 1/2 (MHz): 1516: Rx-Inmarsat/GPS & Thuraya/Tx-Globalstar 1216: Rx-Inmarsat/L1/L2/GPS & Thuraya/Tx-Globalstar

BAND 1/2 Polarizations: RL: RHCP/LHCP LR: LHCP/RHCP RR: RHCP/RHCP LL: LHCP/LHCP

GPS LNA: A: WITH 33dB LNA X: NO CABLE A1: WITH 12dB LNA A2: WITH 20dB LNA

CABLE LENGTH: MIN: Flush Mag. Mount #: Cable Length (in) R: RIGHT ANGLE CON.

GPS/IRIDIUM CONNECTOR: S: SMA-P-PINS M: MCX-MM-MMCX N: N-B: N-Bulkhead T: TNC, TB: TNC-Bulkhead

XXYY: Any other 2 bands

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

COLOR  
-1: GLOSS WHITE #17925 PER FED-STD-595B  
-2: LUSTERLESS GRAY #38320 PER FED-STD-595B  
-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B  
-4: LUSTERLESS BLACK #37038 PER FED-STD-595B  
-5: DESERT TAN

**SPECIFICATIONS**

ZONE	REV		REVISIONS	
	DESCRIPTION	DATE	APPROVED	

**ELECTRICAL:**

	Thuraya & Tx-Globalstar (1610.0 - 1626.5) MHz	Rx-Inmarsat/GPS (1525 - 1580) MHz
FREQUENCY:		
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	LHCP	RHCP
VSWR:	< 1.5:1	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space	F.S. 4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0
@ 10° Elevation:	-1.0	-2.5
@ 20° Elevation:	+1.5	-0.5
@ 30° Elevation:	+2.4	+1.0
@ 60° to 90° Elevation:	>+3.3	>+2.7
BEAM WIDTH (3dB):	129° 98°-106°	103° 146°
AXIAL RATIO @ Zenith:	2 dB	2 dB
POWER HANDLING:	30 W	1 Watt
LIGHTNING PROTECTION:	DC GROUNDING	DC GROUNDING
<b>LNA OPTION</b>		
LNA GAIN:	N/A	(33.0+/-1.0) dB, 20dB (-A2- Option)
LNA P 1dB Out:	N/A	+16 dBm
LNA NOISE FIGURE:	N/A	2.8 dB (Filter loss is Included)
VOLTAGE/CURRENT:	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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810 AND SAE J1545

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

**UNLESS OTHERWISE SPECIFIED**  
DIMENSIONS ARE IN INCHES  
FRACTIONS DECIMALS ANGLES  
± 1/64 .005 .010 ± 1°

TOLERANCE 5th PER ANSI Y14.5  
REMOVE ALL BURRS  
BREAK EXTERNAL EDGES .005 TO .015  
FILLETED & .005 TO .010 R .005  
ORDER DISASSEMBLY PER MIL-STD-883B  
DIA'S ON A COMMON & .0006  
MACHINED SURFACES

APPROVED: S. HUYNH June-27-07  
Dwg File No

DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE, CALIFORNIA  
Low Profile Ruggedized  
Thuraya/Tx-Globalstar & Rx-Inmarsat/GPS  
Antenna

3CVE1 1.5G1516RL-X-XSS-4  
SCALE 1/1  
SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas