



FAA Approved Facility

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

P/N: 3x2G1516RL-P-XMMMM-4

(3.64"x 2.50"x 0.43"), Front Mount (Other Configurations are Available)

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



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THURAYA/TX-GLOBALSTAR: MMCX FEMALE with 20in Cable, (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

GPS/RX-INMARSAT: MMCX FEMALE with 20in Cable, (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

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

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

SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	Thuraya & Tx-Globalstar (1610.0 - 1626.5) MHz	Rx-Inmarsat/GPS (1525 -1580) MHz
FREQUENCY:	(1610.0 - 1626.5) MHz	(1525 -1580) MHz
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	+ 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
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
LNA OPTION		
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. [39.7mm], LENGTH:3.64 in [92.5mm], HEIGHT:0.63 in. [16.0mm]

WEIGHT: 3.5 oz. (99 g)

FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL,AND NICKEL PLATING

MATERIAL: 6061-T6ALUMINUMALLOYBASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,ANDSKYDROLRESISTANCE, FIRE RETARDANT

CONNECTOR: Thuraya/Tx-GlobalstarMMCX FEMALE(J1, Red); GPS/Rx-InmarsatMMCX FEMALE(J2, Blue). Availablein Other Con. Types

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

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLYSEALED

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 REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	REQ NO
4					5
1					3
1					1

CONFIGURATION: FREQ_BAND 1/2 (MHz): 1516:Rx-Inmarsat/GPS
1: 2" SQ. (FLAT) Thuraya/Tx-Gobalstar
2: 2.6" DIA. (FLAT) 1216:Rx-Inmarsat/L1/L&PS& Thuraya/Tx-Gobalstar
3: 3.5" DIA. (FLAT)
4: MINI ARINC (FLAT)
53: (HELIXROD)
5B: (HELIXBLADE)
5D: (HELIXHANDHELD)

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

GPS LNA: A: WITH33dB LNA
P: WITHOUTLNA
A1: WITH12dB LNA
A2: WITH20dB LNA

CABLE'S LENGTH X: NO CABLE
M: FlushMag. Mount
#: CableLength(in)
R: RIGHT ANGLE CON.

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

COLOR
-1: GLOSSWHITE#17925PER FED-STD-595B
-2: LUSTERLESSGRAY#36320PER FED-STD-595B
-3: OLIVEDRAB GREEN#34031PER FED-STD-595B
-4: LUSTERLESSBLACK#37038PER FED-STD-595B
-5: DESERT TAN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO DECIMALS ANGLES ± 1/64 ± .005 ± .010 ± .015 ± .020 ± .030 ± .040 ± .050 ± .063 ± .079 ± .100 ± .125 ± .150 ± .1875 ± .250 ± .315 ± .375 ± .500 ± .625 ± .750 ± .875 ± 1.000 ± 1.250 ± 1.500 ± 2.000 ± 2.500 ± 3.000 ± 3.750 ± 4.500 ± 5.000 ± 6.000 ± 7.000 ± 8.000 ± 9.000 ± 10.000 ± 12.000 ± 15.000 ± 20.000 ± 25.000 ± 30.000 ± 36.000 ± 45.000 ± 60.000 ± 72.000 ± 90.000 ± 108.000 ± 135.000 ± 162.000 ± 180.000 ± 225.000 ± 270.000 ± 315.000 ± 360.000

REMOVE ALL SHARP BREAK EDGES, ENDS .006 TO .015 RADIUS R .006 TO R .002 DIA'S ON A COMMON ± .005 ± .006 MACHINED SURFACES

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

REV: D 3CVE1 3X2A1516RL-X-XMMMM-4
SCALE: 1/1
SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas