

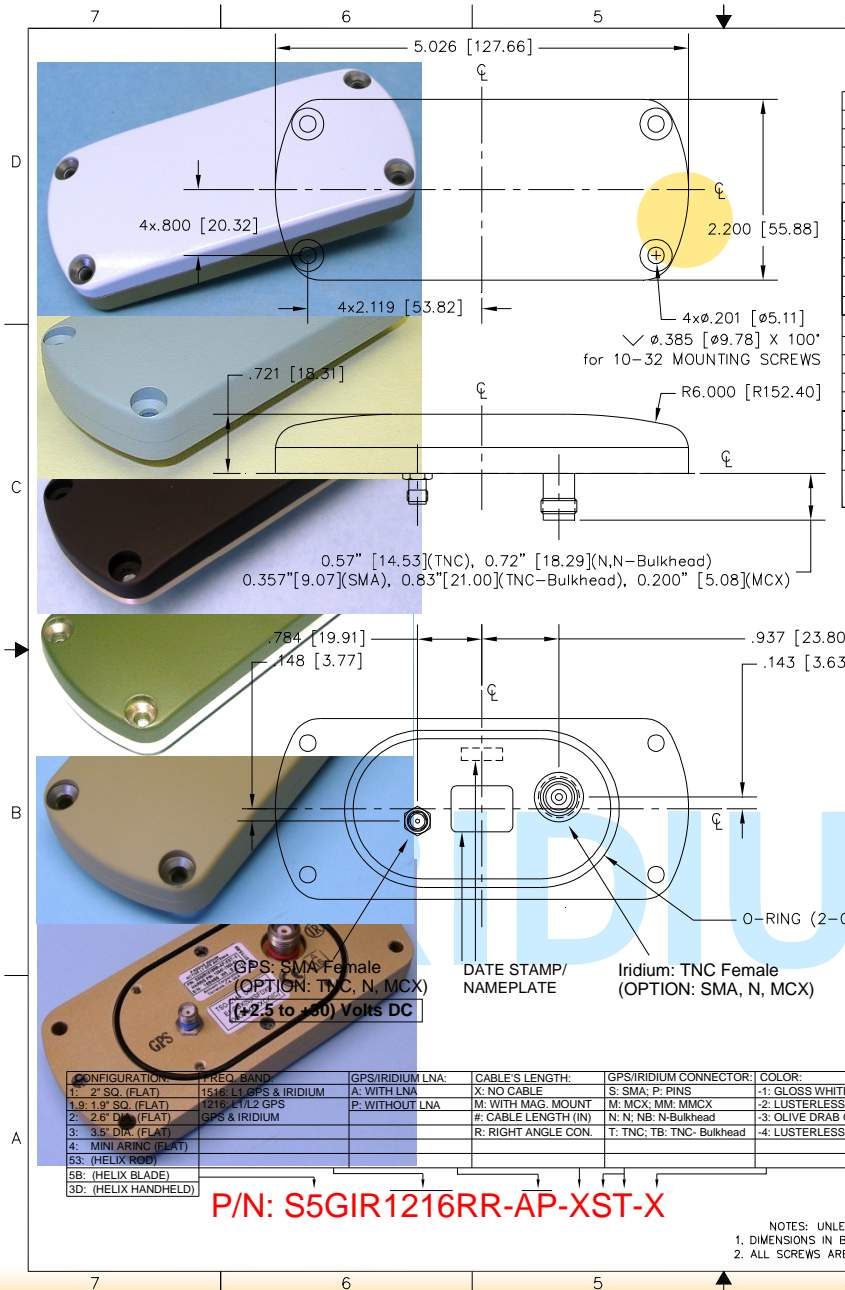


Active L1/L2 GPS & (IRIDIUM/Inmarsat) Antenna, P/N: S5GIR1216RR-AP-XST-X
P/N: S5GIR1216RR-AP-XST-1-HF (with Higher Iridium Rejection Filters)
 (5.03"x2.08"x0.69"), Flat or Pipe mount,



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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



SPECIFICATIONS

ELECTRICAL:

	IRIDIUM	L1 OR L1/L2 GPS			
FREQUENCY:	(1610.0 - 1626.5) MHz	L1: (1575.42 ±13) MHz		L2: (1227.60 ±13) MHz	
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL			
POLARIZATION:	RHCP	RHCP			
VSWR:	< 1.5:1	< 1.5:1			
GAIN (dB):	4 ft G.P. Free Space	F.S.	4 ft G.P.	F.S.	4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0	+4.6	+2.9	+1.8 +5.3
@ 10° Elevation:	-1.0	-2.5	-2.5	-1.8	-4.2 -2.3
@ 20° Elevation:	+1.5	-0.5	-1.1	+0.7	-2.9 +0.4
@ 30° Elevation:	+2.4	+1.0	+0.5	+1.7	-2.0 +2.3
@ 60° to 90° Elevation:	>+3.3	>+2.7	> 3.6	> 2.1	> 0.9 > 3.2
BEAM WIDTH (3dB):	129° 98°-106°	103°	146°	108°	74°
AXIAL RATIO @ Zenith:	2 dB	2 dB			
POWER HANDLING:	30 W	1 Watt			
LIGHTNING PROTECTION:	DC GROUNDING	DC GROUNDING			
FILTER (REJ. @1616 MHz):		> 60 dB			
LNA GAIN:	N/A	(33.0+/-1.0) dB			
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: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]

WEIGHT: 8.59 oz. (244 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: SMA FEMALE, IRIDIUM: TNC FEMALE (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: 70,000 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

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REF
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1	ADHESIVE GASKET	123450-3M-4G	-	-	3
1	O-RING	2-038-N756-75	-	-	1

CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM LNA:	CABLE'S LENGTH:	GPS/IRIDIUM CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)			R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARING (FLAT)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: S5GIR1216RR-AP-XST-X

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

ANTCOM CORP. TORRANCE, CALIFORNIA

FLAT FIXED MOUNT ACTIVE IRIDIUM/L1/L2 GPS ANTENNA

DATE: DEC-13-02
 DRAWN BY: S. HUYNH
 CHECKED BY: M. DEEP
 APPROVED BY: S. HUYNH

REV: 1 OF 1
 SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas