



ISO 9001:2008/FAA Approved Facility

# Active GPS & (IRIDIUM/ Inmarsat or Thuraya) Antennas

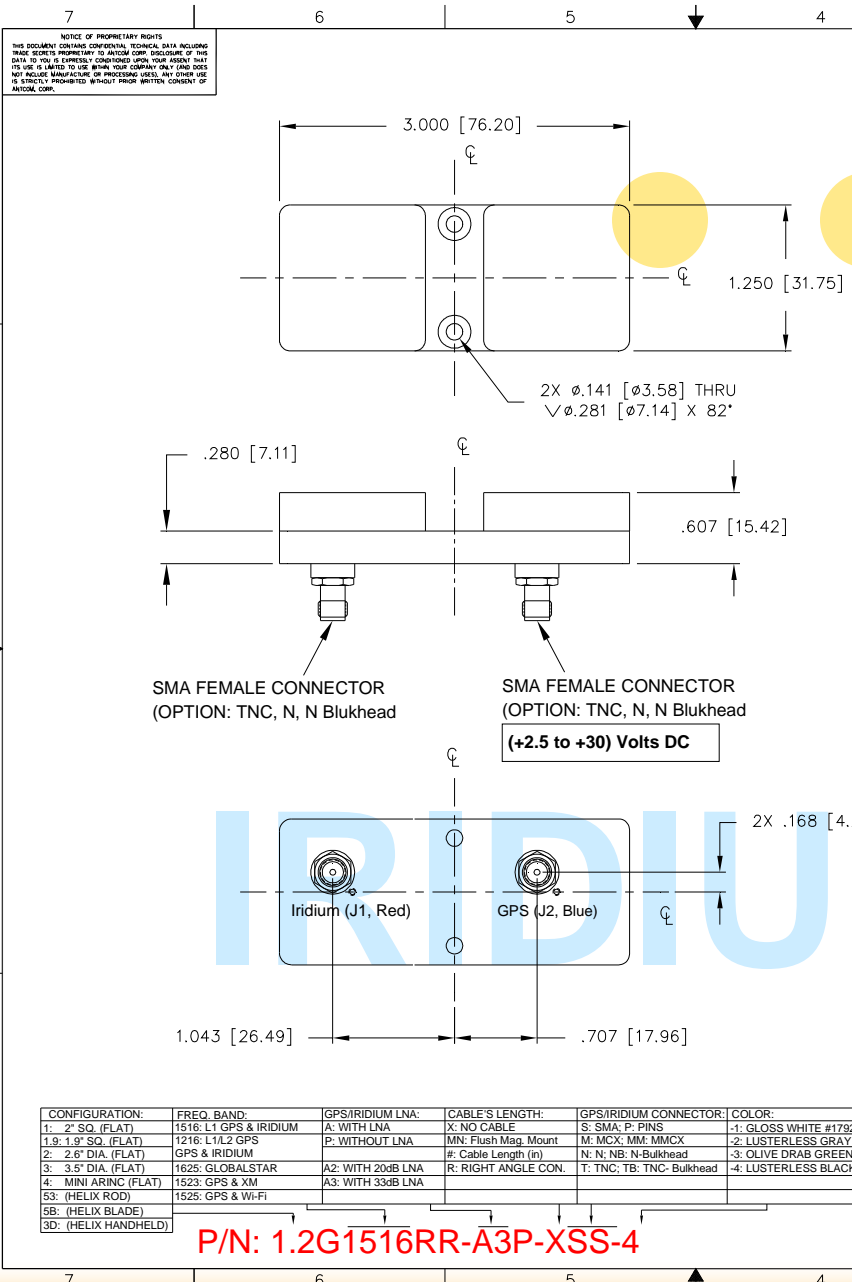
P/N: 1.21GIR1216RR-A3P-XSS-4

(1.2" x 3.0" x 0.6") Front or Back Mount with Bottom Connector



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

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### SPECIFICATIONS

#### ELECTRICAL:

	IRIDIUM	GPS
FREQUENCY:	(1610.0 - 1626.5) MHz	L1: (1575.42 ±13)
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	RHCP	RHCP
VSWR:	< 1.5:1	< 1.5:1
GAIN (dB):	Free Space	Free Space
@ 90° (Zenith):	0.0	0.0
@ 10° Elevation:	- 7.5	- 7.5
@ 20° Elevation:	- 5.5	- 6.1
@ 30° Elevation:	- 4.0	- 4.5
@ 60° Elevation:	- 2.3	- 1.4
BEAM WIDTH (3dB):	98 °-106 °	103 °
AXIAL RATIO @ Zenith:	2 dB	2 dB
POWER HANDLING:	30 W	1 Watt
LIGHTNING PROTECTION:	DC GROUNDING	DC GROUNDING
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
VOLTAGE/CURRENT:	N/A	(+2.8 TO +28) Volts DC / (30 ) mA

#### MECHANICAL:

SIZE: WIDTH: 1.25 in. [31.7 mm], LENGTH: 3in [76.2 mm], HEIGHT: 0.6 in. [15.4 mm]

WEIGHT: 2.3 oz. (65 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND CHEM FILM

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

CONNECTOR: SMA FEMALE: IRIDIUM - (J1, Red); GPS - (J2, Blue) (Option: TNC, N, N Bulkhead)

MOUNTING: FLAT FRONT (2 x 6-32 SCREWS), BACK (2 x 8-32 SCREWS),

#### 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

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	MN: Flush 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)	1625: GLOBALSTAR	A2: WITH 20dB LNA	R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI AFRINC (FLAT)	1523: GPS & XM	A3: WITH 33dB LNA			
53: (HELIX ROD)	1525: GPS & WI-FI				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: 1.2G1516RR-A3P-XSS-4

1	DESCRIPTION	PART NO	MATERIAL	FINISH	1
QUANTITY REQD					ITEM NO
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± 1°</p> <p>TOLERANCE 5/16 PER ANSI Y14.5 REMOVE ALL BURRS BREAK ALL EDGES .005 TO .015 SCREW THREADS PER MIL-S-8879 DAT 1 ON A COARSE PITCH OF .005 MACHINED SURFACES</p> <p>DO NOT SCALE DRAWING</p>					
<p>ORIGINAL DESIGN: S. HUYNH June-27-07</p> <p>ORIGINAL DESIGN: S. HUYNH June-27-07</p> <p>UPDATE: S. HUYNH Sep-06-12</p> <p>UPDATE DRAWN: P. TRAN Sep-06-12</p> <p>APPROVED: S. HUYNH Sep-06-12</p>		<p><b>ANTCOM CORP.</b> TORRANCE CALIFORNIA</p> <p>Low Profile Ruggedized GPS/IRIDIUM Antenna</p> <p>REV: D 3CVE1 1.21GIR1216RR-A3P-XSS-4</p> <p>SCALE 1/1 SHEET 1 OF 1</p>			

NMO Connector is Now Available for Some Antennas