



ISO 9001:2008/FAA Approved Facility

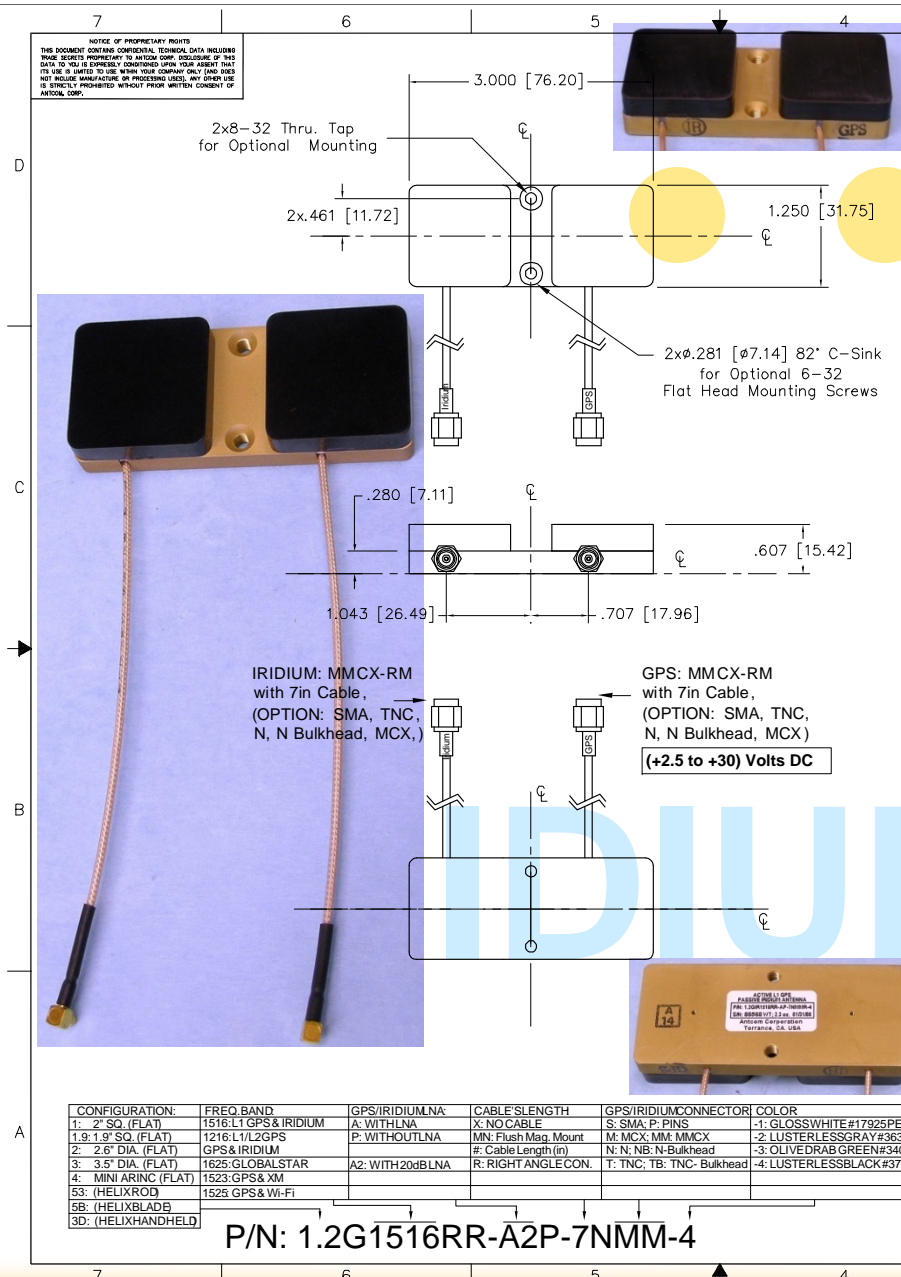
# Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:

P/N: 1.2GIR1516RR-A2P-7NMM-4

(1.2"x 3.0"x 0.6"), Front, or Back Mount with Cable



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## SPECIFICATIONS

ELECTRICAL:	IRIDIUM		GPS	
	FREQUENCY:	(1610.0 - 1626.5) MHz	FREQUENCY:	L1: (1575.42 ±13)
RADIATION PATTERN:	HEMISPHERICAL	RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	POLARIZATION:	RHCP	
VSWR:	< 1.5:1	VSWR:	< 1.5:1	
GAIN (dB):	Free Space	GAIN (dB):	F.S.	
@ 90° (Zenith):	0.0	@ 90° (Zenith):	0.0	
@ 10° Elevation:	- 7.5	@ 10° Elevation:	- 7.5	
@ 20° Elevation:	- 5.5	@ 20° Elevation:	- 6.1	
@ 30° Elevation:	- 4.0	@ 30° Elevation:	- 4.5	
@ 60° Elevation:	- 2.3	@ 60° Elevation:	- 1.4	
BEAM WIDTH (3dB):	98 °-106 °	BEAM WIDTH (3dB):	103 °	
AXIAL RATIO @ Zenith:	2 dB	AXIAL RATIO @ Zenith:	2 dB	
POWER HANDLING:	30 W	POWER HANDLING:	1 Watt	
LIGHTNING PROTECTION:	DC GROUNDING	LIGHTNING PROTECTION:	DC GROUNDING	
LNA GAIN:	N/A	LNA GAIN:	(33.0+/-1.0) dB, 20dB (-A2- Option)	
LNA P 1dB Out:	N/A	LNA P 1dB Out:	+16 dBm	
LNA NOISE FIGURE:	N/A	LNA NOISE FIGURE:	2.8 dB	
VOLTAGE/CURRENT:	N/A	VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (30 ) mA	

## MECHANICAL:

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

WEIGHT: 2.3 oz. (65 g)

FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL,AND CHEMFILM

MATERIAL: 6061-T6ALUMINUMALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,ANDSKYDROLRESISTANCE, FIRE RETARDANT

CONNECTOR: IRIDIUM:MMCX-RM(J1, Red); GPS:MMCX-RM(J2, Blue)

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: 70,000ft.

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	NEW NO
4					5
					3
1					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± 1/64 .0005 .010 ± 1°

ANTCOM CORP. TORRANCE CALIFORNIA

Low Profile Ruggedized Active GPS/IRIDIUM Antenna

APPROVED: S. HUYNH June-27-07

SCALE 1/1

SHEET 1 OF 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	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 ARINC (FLAT)	1523:GPS & XM				
53: (HELIX)ROD	1525:GPS & WI-FI				
5B: (HELIX)BLADE					
3D: (HELIX)HANDHELD					

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NMO Connector Option is Now Available for Some Antennas