



ISO 9001:2008/FAA Approved Facility

Active L1L2 / Passive Iridium / Dual Quad-Band Antenna For Deep Water Application
 P/N: 5BGL1L2IR2WB-AP3-XS4C-UU-CORDC (12" SMA Cable, With Dual Quad-Band)
 P/N: 5BGL1L23WB-AP3-XS4C-UU-CORDC (12" SMA Cable, With Tri Quad-Band, No Iridium)
 Other Frequencies and Connectors Options are Available

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



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	GPS		IRIDIUM	QUAD-BAND			
	L1 GPS: (1575 ± 17)	L2 GPS (1227.60 ± 15)	(1610-1626)	Cellular, GSM, ISM, WLAN, RF ID	PCS, 802.11b, 802.11g, WFI, Bluetooth, Hotspot	802.11a, WFI-ISM	
RADIATION PATTERN:	HEMISPHERICAL						
POLARIZATION:	RHCP		RHCP	RHCP			
VSWR:	< 2:1		< 2:1	< 2:1			
IMPEDANCE:	50 ohms		50 ohms	50 ohms			
ANTENNA GAIN:	Free Space	16 In G.P.	4 ft G.P.	Free Space	16 In G.P.	4 ft G.P.	F.S./G.P.
@ 90° Elevation:	+4.7	+0.4	+3.5	+3.3	+1.5	+4.9	+0.7/+1.1
@ 20° Elevation:	+1.9	+3.2	+2.0	+3.8	+4.0	+3.6	+1.6/+0.8
@ 30° Elevation:	+0.3	+1.0	+0.8	+2.0	+2.0	+0.1	-0.8/+1.2
@ 60-90° Elevation:	+1.4	+0.9	+1.8	-0.5	0.0	-1.8	-0.7/+1.1
> 3.9	+3.4/+0.4	> 2.8	> 2.7	+2.4/+1.5	> 3.0	-0.7/+0.0	
BEAM WIDTH (3dB):	114 Deg.	118 Deg.	139 Deg.	106 Deg.	111 Deg.	75 Deg.	180/162 Deg.
LIGHTNING PROTECTION:	DC GROUNDING						
LNA GAIN:	33 dB		35 dB				
LNA NOISE FIGURE:	3.0 dB		3.0 dB				
LNA P1dB OUT:	+13 dBm		+13 dBm				
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/50mA						
REJECTION @ 1-50/+50 MHz	> -11 dB / -59 dB		> -40 dB / -40 dB				
@ 100/+100 MHz	< -65 dB		< -65 dB				
POWER HANDLING:	1 Watt CW, 2000 Peak 1 Microsec Pulse (-AL-)						

MECHANICAL:

SIZE: WIDTH: 2.28 in. [58 mm], LENGTH: 5.11 in. [130 mm], HEIGHT: 7.15 in. [182 mm]

WEIGHT: 2.26 lbs., (1.03 kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441F

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B
 GLOSS WHITE #17925 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: SMA MALE CABLE (OPTIONAL: TNC, N, BNC)

ENVIRONMENTAL:

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

ALTITUDE: 70,000 ft.

VIBRATION: 10 G's

LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DO-160D, MIL-C-5441, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

CONNECTOR: DGO: DGO
 S: SMA, C: QMA
 N: N, T: TNC

COLOR: -1: GLOSS WHITE #17925 PER FED-STD-595B
 -2: LUSTERLESS GRAY #36320 PER FED-STD-595B
 -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
 -4: LUSTERLESS BLACK #37038 PER FED-STD-595B
 -5: DESERT TAN #33448 PER FED-STD-595B
 -UU: TEFLON COATED FOR UNDERWATER APPLICATION

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
1	O-RING	2-038-N756-75	-	-	2
4	SCREW, MOUNTING	91781A844	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS ARE TO BE USED FOR ANGLES ± 1/64
 DECIMALS ARE TO BE USED FOR ANGLES ± 1'

TOLERANCE SWM PER ANSI Y14.6
 REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .010
 PILES IN .020 IN. DIA
 SCREW THREADS PER MIL-C-8879
 DIMS ON A CORNER ± .005
 MACHINED SURFACES V

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

L1L2 / Iridium / Quad-Band ANTENNA

DATE: 3CVE1
 DRAWN BY: S. HUYNH
 CHECKED BY: S. HUYNH
 APPROVED BY: P. TRAN
 SCALE: 1/1

SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas