



ISO 9001:2008/FAA Approved Facility

**Active L1L2 /Passive Iridium /Dual Quad-Band Antenna,**  
**P/N: 5BGL1L2IR2WB-AP3-XT4-UU (For TNC Connectors / Underwater Application)**  
**P/N: 5BGL1L2IR2WB-AP3-XX4-X (For Other Connectors)**  
**Other Frequencies and Connectors are Available**

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



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**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY (MHz):	GPS				IRIDIUM			
	L1 GPS (1575 ± 17)		L2 GPS (1227.60 ± 15)		(1610-1626)		QUAD-BAND	
RADIATION PATTERN:	HEMISPHERICAL				HEMISPHERICAL			
POLARIZATION:	RHCP				RHCP			
VSWR:	< 2:1				< 2:1			
IMPEDANCE:	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.	50 ohms	F.S./G.P.
@ 90° (ZENITH):	+4.7	+0.4	+3.5	+3.3	+1.5	+4.9	+0.1/+1.1	
@ 10° Elevation:	-1.8	-3.2	-2.0	-3.8	-4.0	-3.8	-1.8/+0.8	
@ 20° Elevation:	-0.3	-1.0	+0.8	-2.0	-2.0	-0.1	-0.8/+1.2	
@ 30° Elevation:	+1.4	+0.9	+1.8	-0.5	0.0	-1.8	-0.7/+1.1	
@ 60 - 90° Elevation:	> 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, (2.5-24)V/-50mA							
REJECTION @ (-50/+50) MHz:	-41 dB / -59 dB				-40 dB / -40 dB			
REJECTION @ (-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: TNC FEMALE CONNECTORS (OPTIONAL: SMA, 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-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

**QUAD BAND**

Cellular, GSM, ISM, WLAN, RFID

PCS, 802.11b, 802.11g, WiFi, Bluetooth, Hotspot

802.11a, WiFi, ISM

UHF (810-960)

L1S-BAND (1610-1850-2400-2500)

S-BAND (2400-2500)

C-BAND (4400-5850)

OMNIDIRECTIONAL

VERTICAL

2.0:1

50 ohms

> 3 dB On Ground Plane

**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED

5.026 [127.66]

4X Ø.201 [Ø5.11] THRU Ø.390 [9.91] X 100°

2.200 [55.88]

5.137 [130.48]

.850 [21.58]

TNC CONNECTOR (OPTIONAL: SMA, N, BNC)

4X2.292 [58.20]

4X 1.600 [40.64]

6X .912 [23.16]

4X .800 [20.32]

4X .420 [10.66]

10X 4-40 UNC .25 DEEP

2X .417 [10.59]

2X 1.250 [31.76]

4X 2.119 [53.82]

QUAD GPS IR QUAD

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