



FAA Approved Facility

Active **Up-Link** Thuraya + Inmarsat + Iridium + L1L2-GPS Antenna
 P/N: 5BGL1L2TxTINIR-4A-XT4-2-AFRO (for Receiving @ Tx-Bands, Gray)
 P/N: 5BGL1L2TxTINIR-4A-XT4-1-AFRO (for Receiving @ Tx-Bands, White)
 P/N: 5BGTxTINIR-4A-XT3-2-AFRO (for Receiving @ Tx-Bands, Gray, No GPS)
 P/N: 5BGTxTINIR-4A-XT3-1-AFRO (for Receiving @ Tx-Bands, White, No GPS)
 Other Frequencies, Mounting Foot Prints, Connectors, and Colors Options are Available
 Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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5.026 [127.66]
 2.214 [56.24]
 5.341 [135.66]
 5.133 [130.38]
 .846 [21.48]
 4.237 [107.63]
 1.600 [40.64]
 1.114 [28.29]
 1.114 [28.30]
 .371 [9.43]
 .371 [9.43]

4X ϕ .201 [ϕ 5.11] THRU
 $\sqrt{\phi}$.390 [9.91] X 100°

TNC FEMALE CONNECTOR
 (OPTION: SMA, N, BNC)

CONNECTOR:
 DGG: DGO
 S: SMA, Q: 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 #33446 PER FED-STD-595B
 -U: TEFLON COATED FOR UNDERWATER APPLICATION

SPECIFICATIONS

	REVISIONS				
	ZONE	REV	DESCRIPTION	DATE	APPROVED

	Tx-Inmarsat	Tx-Thuraya	L1 GPS	L2 GPS	Iridium
FREQUENCY:	(1625 - 1660) MHz	(1625 - 1660) MHz	(1575.42 ±15) MHz	(1227.60 ±15) MHz	(1616.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP	LHCP		RHCP	RHCP
VSWR:	2.0:1				
IMPEDANCE:	50 ohms				
ANTENNA GAIN (dBic):	On G.P.	On G.P.	On G.P.	On G.P.	On G.P.
@ 90° (ZENITH):	+ 1.6	+2.2 / +0.6	+ 3.8	+ 2.7	+3.8
@ 10° Elevation:	- 2.4	+0.6 / -0.5	- 4.3	- 6.3	- 4.3
@ 20° Elevation:	+ 0.7	+0.9 / -0.3	- 2.2	- 4.2	- 2.2
@ 30° Elevation:	+ 2.3	+1.1 / +0	- 0.7	- 2.4	- 0.7
@ 60 - 90° Elevation:	> + 2.1	>+1.3 / +0.2	> 2.5	> 1.3	> 2.5
BEAM WIDTH (3dB):	140 Deg.	160 Deg.	120 Deg.	90 Deg.	120 Deg.
AXIAL RATIO:	2 dB	2 dB	2 dB	3 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING				
LNA GAIN:	33 dB Gain				
LNA NOISE FIGURE:	3.0 dB				
LNA P1dB Out:	+13 dBm				
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA				
POWER HANDLING:	100 Watts CW (WITHOUT LNA) , 1 Watt CW (WITH LNA)				

MECHANICAL:

SIZE: WIDTH: 2.20 In. [55.88 mm], LENGTH: 5.026 In. [127.66 mm], HEIGHT: 5.133 in. [130.38 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:

TSO-C129A, TSO-C169A/C144, MIL-C-5541F(Finish), MIL-DTL-14072(Finish), MIL-I-45208A(Inspection), DO-160D(Test), DO-228, MIL-STD-810 (Test), SAE J1455(Enviromental), MIL-S-901D(Shock), MIL-STD-167-1A(Vibration), MIL-HDBK-2164A(Stress), MIL-STD-461E/F(Elec Interfer), MIL-STD-202(Elec Comp.), MIL-HDBK-5400(Elec Eq.), MIL-HDBK-454(Elec Eq.), MIL-PRF-39012(Cann), MIL-STD-129 (Marking), MIL-STD-1285(Markling), MIL-STD-889(Metal), FED-STD-595(Colors), MIL-C-85704B(Solvent), MIL-G-81827(Grease)

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	TEMP
4	SCREW, MOUNTING (10-32, 1.5")	93085A837	-	-	1

P/N: 5BGL1L2TxTINIR-4A-XT4-2-AFRO

DATE	BY	CHKD	APP'D	REV
Aug-03-16	S. HUYNH			1
Aug-03-16	S. HUYNH			2
Mar-02-17	S. HUYNH			3
Mar-02-17	S. HUYNH			4
Mar-02-17	S. HUYNH			5

ANTCOM CORP. TORRANCE CALIFORNIA

ACTIVE L1L2 GPS/THURAYA
 INMARSAT/ IRIDIUM ANTENNA

SCALE 1/1

SHEET 1 OF 1