



3-Port Active L1 GPS + Dual Iridium Antenna (3 Separate Elements)

P/N: 3GL1RxTxIRIR-APP-XSS-1-F2

3.5" Diameter, Flat, Top Mount Configuration. L1/L2, Other Frequency Bands and Connector Options are Available



ISO 9001:2008/FAA Approved Facility

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

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IRIDIUM

SPECIFICATIONS

	REVISIONS				
	ZONE	REV	DESCRIPTION	DATE	APPROVED

	J1	J2	J3
ELECTRICAL:	ACTIVE L1 GPS	IRIDIUM	IRIDIUM
FREQUENCY:	(1575 ± 17) MHz	(1609 - 1626) MHz	(1609 - 1626) MHz
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL	HEMISPHERICAL
VSWR:	RHCP	RHCP	RHCP
IMPEDANCE:	< 2.0:1		
ANTENNA GAIN (dBi):	50 ohms		
@ 90 ° (ZENITH):	+ 1.5		
@ 10 ° Elevation:	- 6.8		
@ 20 ° Elevation:	- 4.5		
@ 30 ° Elevation:	- 3.0		
@ 60 - 90 ° Elevation:	+ 0.2		
BEAM WIDTH (3dB):	110 Deg.		
AXIAL RATIO:	2.5 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	30 dB		
LNA NOISE FIGURE:	2.8 dB	PASSIVE	PASSIVE
LNA P1dB Out:	+13 dBm		
VOLTAGE/CURRENT:	(2.5 TO 24)V @ 35 mA		

MECHANICAL:

SIZE: DIAMETER: 3.50 in. [88.9 mm]
HEIGHT: 0.757 in [19.23 mm]

WEIGHT: 9.6oz. (272g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F

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

CONNECTOR: 3X SMA FEMALE
(OPTION: SMP, MCX, MMCX, TNC, TNC Bulkhead
BNC, N, N Bulkhead, or Cable)

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:

FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	RxTxT: RxTx-Thuraya; RxTxIR: Rx-Thuraya & Rx-Iridium/L1-GPS	A: WITH 33dB LNA
1.9: 1.9" SQ.	L1RxT: L1-GPS & Rx-Thuraya; L1RxIR: L1-GPS & Rx-Iridium	A2: WITH 22dB LNA
2: 2.6" DIA.	L1RxTxT: L1-GPS & RxTx-Thuraya; L1L2RxTxT: L1L2-GPS & RxTx-Thuraya	P: WITHOUT LNA
3: 3.6" DIA.	L1RxTxIR: L1-GPS & RxTx-Iridium; L1L2RxTxIR: L1L2-GPS & RxTx-Iridium	
4: MINI ARINC, 42: ARINC 743	L1RxTxTIR: L1-GPS & RxTx-Thuraya & RxTx-Iridium/Inmarsat	

QTY	DESCRIPTION	PART NO	FINISH	REV
4	MONTING SCREWS: 10-32, 1"	J507C1032R16, Item 579		5
1	GASKET	3G15P1001-2-3G (Item 539)	-	1

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CABLE'S LENGTH	Connector:	COLOR:
X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG., N: No Mag.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
RR: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-3C: OLIVE DRAB GREEN #34088 PER FED-STD-595B
		-4: LUSTERLESS BLACK #37036 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED	ANTCOM CORP.
DIMENSIONS ARE IN INCHES	TORRANCE, CALIFORNIA
FRACTIONS SHALL BE IN 16ths	3.5" Dia., Bottom Connector
± 1/64	L1 GPS & Dual Iridium
± .005	Antenna
± .01	
± .015	
± .02	
± .03	
± .04	
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± .12	
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± .30	
± .375	
± .50	
± .625	
± .75	
± .875	
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1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector is Now Available for Some Antennas