



RHCP Rx/Tx-Inmarsat/L1GPS + RHCP Rx/Tx-Iridium/L1GPS Antenna, P/N: 5GRxTxINIR-PP-XTT-5
RHCP Rx/Tx-Inmarsat/L1GPS + LHCP Rx/Tx-Thuraya Antenna, P/N: 5GRxTxINT-PP-XTT-5

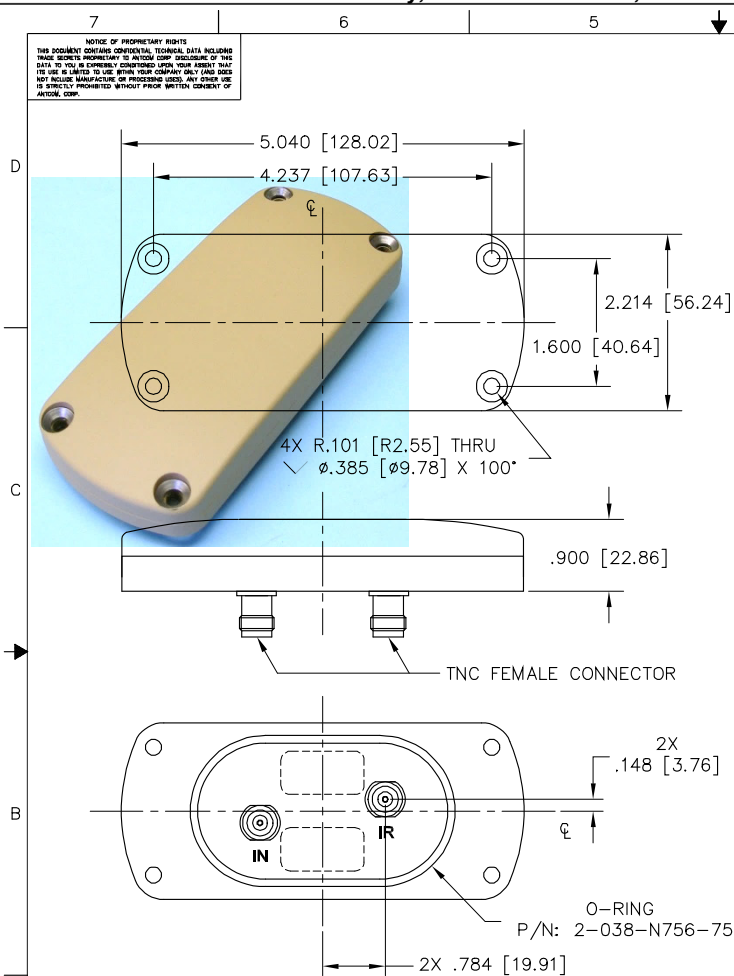


Other Frequencies, Connectors and Color Options are Available

FAA Approved Facility

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

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SPECIFICATIONS

	REVISIONS							
	ZONE	REV	DESCRIPTION	DATE	APPROVED			
ELECTRICAL:								
FREQUENCY:		Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP) or Rx-Thuraya (LHCP)	L1 GPS E1, E2 Galileo, L1 IRNSS (RHCP)	IRIDIUM L1 GLONASS (RHCP) or Tx-Globalstar (LHCP)				Tx-Inmarsat (RHCP) or Tx-Thuraya (LHCP)
RADIATION PATTERN:		HEMISPHERICAL						
VSWR:		< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:		50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBic):		Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space
@ 90 ° (ZENITH):		+ 2.5	+ 1.6	+ 3.7	- 1.5	+ 3.0	- 0.5	+ 3.4
@ 10 ° Elevation:		- 4.7	- 2.4	- 3.5	- 3.5	- 4.5	- 4.0	- 3.8
@ 20 ° Elevation:		- 3.8	+ 0.7	- 2.6	- 0.9	- 3.3	- 1.2	- 2.7
@ 30 ° Elevation:		- 2.1	+ 2.3	- 0.9	+ 0.3	- 1.5	- 1.0	- 0.1
@ 60 - 90 ° Elevation:		> + 1.0	> + 2.1	> + 2.3	> 0	> + 1.8	> - 1.3	> + 2.2
BEAM WIDTH (3dB):		90 Deg.	140 Deg.	85 Deg.	140 Deg.	85 Deg.	140 Deg.	87 Deg.
AXIAL RATIO:		3 dB						
LIGHTNING PROTECTION:		DC GROUNDING						
LNA OPTION:		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						
REJECTION @ (-50/+50) MHz:		-40 dB / -40 dB						
@ (-100/+100) MHz:		< -65 dB						
POWER HANDLING:		100 Watts CW (WITHOUT LNA) , 1 Watt CW (WITH LNA)						

MECHANICAL:

SIZE: WIDTH: 2.214 in. [56.24 mm], LENGTH: 5.040 in [128.02 mm], HEIGHT: 0.900in. [22.86 mm]
WEIGHT: 10.4 oz. (295g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441F
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: TNC FEMALE (OPTION: SMA, N, BNC, F, MCX, or MMCX)

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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

CONFIGURATION:	FREQ. BAND:	GPS LNA:	GPS/Inmarsat/Thuraya Connector:	COLOR:
1: 2" SQ. (FLAT)	RxTxINIR: RxTx Inmarsat & RxTx Iridium	A: WITH LNA	S: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	L1L2RxTxINIR: L1L2 GPS & RxTx Inmarsat/Iridium	E: WITHOUT LNA	M: MCX; MIM; MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	L1L2RxTxIN: L1L2 GPS & Inmarsat	AZ: WITH 1.20x8 LNA	N: N; NB: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	L1RxTxT: L1 GPS & RxTx Thuraya		T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MIN ARINC (FLAT)	L1L2RxTxT: L1L2 GPS & RxTx Thuraya		B: BNC FEMALE	-5: DESERT TAN #33446 PER FED-STD-595B
5: (HELIX ROD)				
5B: (HELIX BLADE)				
3D: (HELIX HANDHELD)				

P/N: 5GRxTxINIR-PP-XTT-5

QUANTITY	DESCRIPTION	PART NO	FINISH	REV
4	SCREW, MOUNTING (10-32, 1.5"L)	93085A837		2
1	O-RING	2-038-N756-75	-	1
-1				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE ANGLES	FRACIONS	DECIMALS	ANGLES
± 1/64	± .015	± .005	± 1'

DATE	BY	APP'D	REV
Dec-08-11	S. HUYNH		1
Dec-08-11	S. HUYNH		2
Aug-03-16	P. TRAN		3
Aug-03-16	S. HUYNH		4
Aug-03-16	S. HUYNH		5

ANTCOM CORP. TORRANCE CALIFORNIA
 RHCP Rx/Tx-Inmarsat/L1GPS + RHCP Rx/Tx-Iridium/L1GPS

3C VE1 5GRxTxINIR-PP-XTT-5
 SCALE 1/1 SHEET 1 OF 1