



ISO 9001:2008/FAA Approved Facility

2-Port Passive L1 GPS / Iridium Antenna

P/N: 1GL1RxTxIR-PP-XSS-1 (SMA Connectors, White)

2" Square, Back Mount, Bottom Connector Configuration



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

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

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ELECTRICAL:

FREQUENCY: (1542.5 ± 17.5) MHz (L1 GPS), (1575 ± 17) MHz (IRIDIUM), (1609 -1626) MHz (Tx-Thuraya (LHCP)), (1642.5 ± 17.5) MHz (Rx-Thuraya (LHCP) or Rx Inmarsat OmniStar, L5 Galileo, B1 Compass (RHCP))

RADIATION PATTERN: HEMISPHERICAL

VSWR: < 2.0:1

IMPEDANCE: 50 ohms

ANTENNA GAIN (dBi):

	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90 ° (ZENITH):	+2.5	+1.6	+3.7	-1.5	+3.0	-0.5	+3.4	+0.5
@ 10 ° Elevation:	-4.7	-2.4	-3.5	-3.5	-4.5	-4.0	-3.8	-3.3
@ 20 ° Elevation:	-3.8	+0.7	-2.6	-0.9	-3.3	-1.2	-2.7	-0.6
@ 30 ° Elevation:	-2.1	+2.3	-0.9	+0.3	-1.5	-0.3	-1.0	-0.1
@ 60 - 90 ° Elevation:	> +1.0	> +2.1	> +2.3	> 0	> +1.8	> -1.3	> +2.2	> -1.5

BEAM WIDTH (3dB): 90 Deg. 140 Deg. 85 Deg. 140 Deg. 85 Deg. 87 Deg. 130 Deg.

AXIAL RATIO: 3 dB

LIGHTNING PROTECTION: DC GROUNDING

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm], HEIGHT: 0.655 in. [16.64mm], .497in. [12.6mm] (No Radome option)

WEIGHT: 2.88 oz. (82 g)

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

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

CONNECTOR: SMA FEMALE (OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, MCX, MMCX, 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

DESIGN TO: ATP-GPS-L1L2-100

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

MOUNTING:
4X 4-40 UNF-2A
X 0.105 DEEP,
ADHESIVE GASKET

SMA FEMALE CONNECTOR (L1/L2 GPS/RHCP-L-BAND, BLUE) (OPTIONAL: PINS, TNC, MCX, MMCX, OR CABLE)

SMA FEMALE MALE CONNECTOR (LHCP-L-BAND, RED) (OPTIONAL: PINS, TNC, MCX, MMCX, OR CABLE)

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1			

QUANTITY RECORD

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1	ADHESIVE GASKET	123456-3M-1G	-	-	-	1

PARTS LIST

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1	ADHESIVE GASKET	123456-3M-1G	-	-	-	1

ANTCOM CORP. TORRANCE, CALIFORNIA

2-Port L1 Passive GPS Iridium Antenna

DATE: 08/11/13
DRAWN: S. HUYNH
CHECKED: P. TRAN
APPROVED: S. HUYNH

SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas

P/N: 1GL1RxTxIR-PP-XSS-1

- ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
- DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE LENGTH:	RHCP/LHCP CON:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG, N: No Radome	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B