



FAA Approved Facility

Antcom's G5 Antenna, Active L1/L2 Glonass + L1/L2 GPS + OmniStar/TerraStar Antenna, P/N: G5Ant-4AT1

Mini Arinc Configuration

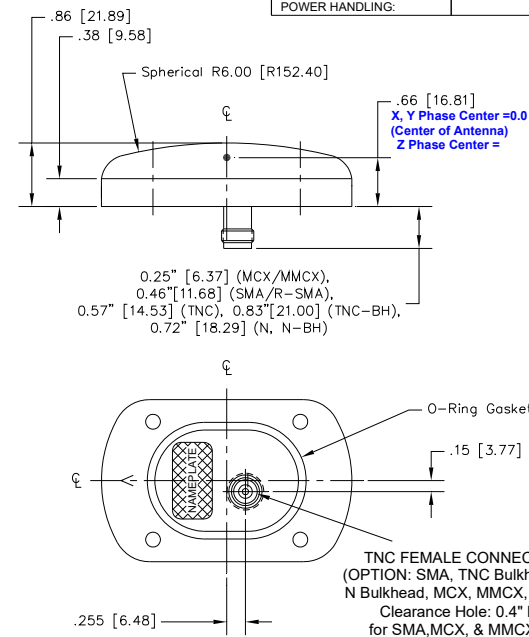
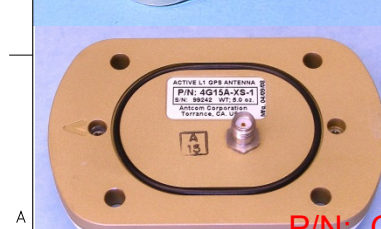
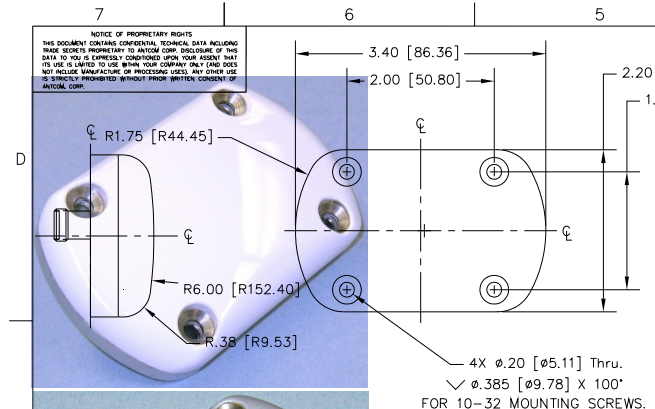
(with Filters, better RTK Performance, Optimized for L1/L2 Glonass & L1/L2 GPS & OmniStar/TerraStar)

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



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“-HF” for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: -22dB@1616MHz, -34dB@1625-1660MHz
“-HFO” for Additional OmniStar/TerraStar Rejection: -27dB@1545MHz



P/N: G5Ant-4AT1

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH LNA	X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	P: WITHOUT LNA		M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.			N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
3: 3.5" DIA.			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC				-5: TAN #; FS 23446 or 33446, FED-STD-595

ELECTRICAL:

	L5 GPS E5, E5a, E5b Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	1176.45 ± 12 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15 MHz	1227.60 ± 12 MHz 1207.14 ± 10 MHz	1252.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	(1598 - 1606) MHz
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP	RHCP	RHCP	RHCP	RHCP	RHCP
VSWR:	< 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
ANTENNA GAIN (dBi):	Free Space 4 ft G.P. +2.6	Free Space 4 ft G.P. +4.8	Free Space 4 ft G.P. +2.4	Free Space 4 ft G.P. +2.1	Free Space 4 ft G.P. +2.0	Free Space 4 ft G.P. +1.4
@ 90° (ZENITH):	-3	-3	-3.5	-6.3	-4.7	-5.1
@ 10° Elevation:	-9	-10	-2.0	-0.3	-4.7	-5.1
@ 20° Elevation:	-8	-7	-2.0	-0.3	-4.7	-5.1
@ 30° Elevation:	-6	-5	-0.4	+1.8	-3.4	-1.2
@ 60 - 90° Elevation:	> -4	> -4	> 1.3	> 2.6	> -1.5	> -0.1
BEAM WIDTH (3dB):	110 Deg.	120 Deg.	110 Deg.	115 Deg.	105 Deg.	95 Deg.
AXIAL RATIO:	1.5 dB	2 dB	1 dB	1 dB	2 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN:	35 dB	35 dB	35 dB	33 dB	33 dB	33 dB
LNA NOISE FIGURE:	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA					
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)					

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH 3.40 in. [86.36 mm], HEIGHT: 0.86 in. [21.89 mm]

WEIGHT: 9 oz. (256 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F CLASS 1A
GLOSS WHITE #17925 PER FED-STD-595B

COLOR: 6061-T6 ALUMINUM ALLOY BASE

MATERIAL: COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: TNC FEMALE
(OPTION: SMA, BNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

HAILSTONES: < 0.5" Dia.

FEDERAL & MILITARY SPECIFICATIONS:

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

QUANTITY REQD	DESCRIPTION	PART NO	REV
4	Mounting Screws: 10-32, 1.25"	J507C1032R20 (93085A835)	5
4	Washer, Custom C'Sink	3G15P1001-70	3
1	O-Ring or Gasket	2-031/N756-75	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/64 .012 .015 ± 1'

TOLERANCE 5M PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILES IN .005 TO .010 SMOOTH THREADS PER UNF-8B79 PINS ON A COMMON 1.27 .005 MACHINED SURFACES 12.5

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

Mini Arinc
L1L2Glonass/L1L2GPS/OmniStar
G5 ANTENNA

CREATED: S. HUYNH
ENGINEER: Mar-24-09

APPROVED: S. HUYNH
MGR-24-09

DRW NO: D13CVE11
REV: 1
SCALE: 1/1
SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas