



FAA Approved Facility

Antcom's G5 Antenna, Active L1/L2 Glonass + L1/L2 GPS + OmniStar/TerraStar Antenna, P/N: G5Ant-3AT1-SS 3.5in Dia. Top/Bottom Mount 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

NMO Connector Option is Now Available for Some Antennas

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4X ϕ .201 [05.11] THRU $\sqrt{\phi$.385 [09.87] X 100"

ϕ 2.687 [068.25]

.862 [21.89]
.405 [10.29]

R6.000 [R152.40]
.664 [16.87]
X, Y Phase Center = 0.0 (Center of Antenna)
Z Phase Center =

TNC CONNECTOR (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

.849 [21.55]
.496 [12.61]
1.282 [32.57]
.176 [4.47]

ϕ 1.927 [048.95]
 ϕ 1.741 [044.22]
4x ϕ 0.190-32 UNC-2B 0.250" Deep

.262 [6.65]
4x ϕ 0.093 [02.36] THRU $\sqrt{\phi$.187 X 82" x0.284" Deep

SIZE:
1: 2" SQ
1.9: 1.9" SQ
2: 2.6" DIA.
3: 3.5" DIA.
4: MINI ARINC

42: ARINC 743
52: 2.6" DIA. ON 5" GROUND PLANE
72: 7" DIA. CHOKER RING

LNA:
A: WITH LNA
P: WITHOUT LNA
A4: WITH 40 dB LNA GAIN

CONNECTOR:
S: SMA; B: BNC
M: MCX; MM: MMCX
N: N, NB, N-Bulkhead
T: TNC, TB, TNC-Bulkhead

COLOR:
-1: GLOSS WHITE #17925 PER FED-STD-595B
-2: LUSTERLESS GRAY #36330 PER FED-STD-595B
-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
-5: TAN #: FS 23446 or 33446, FED-STD-595

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	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
	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	1609 ± 7.0 MHz

RADIATION PATTERN: HEMISPHERICAL

POLARIZATION: RHCP

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.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90° (ZENITH):	-3	-3	+2.6	+4.8	+0.0	+2.4	+2.1	-2.0	+4.0	+2.0	+3.0	+1.4
@ 10° Elevation:	-9	-10	-3.5	-3.5	-6.5	-6.3	-4.7	-5.1	-2.7	-2.5	-3.9	-3.4
@ 20° Elevation:	-8	-7	-2.0	-0.3	-4.7	-3.2	-3.5	-1.9	-1.7	+0.4	-2.9	-0.5
@ 30° Elevation:	-6	-5	-0.4	+1.8	-3.4	-1.2	-2.5	-0.5	-0.5	+1.6	-1.6	+0.5
@ 60-90° Elevation:	> -4	> -4	> 1.3	> 2.6	> -1.5	> -0.1	> +1.1	> +0.5	> +2.9	> +1.6	> +2.0	> -0.2

BEAM WIDTH (3dB): 110 Deg, 120 Deg, 110 Deg, 115 Deg, 105 Deg, 110 Deg, 95 Deg, 145 Deg, 95 Deg, 150 Deg, 95 Deg, 145 Deg

AXIAL RATIO: 1.5 dB, 2 dB, 1 dB, 1 dB, 1 dB, 2 dB, 1 dB, 2 dB, 1 dB, 1 dB, 2 dB, 3 dB

LIGHTNING PROTECTION: DC GROUNDING

LNA GAIN: 35 dB, 35 dB, 35 dB, 33 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, 3.0 dB

LNA P1dB Out: +13 dBm, +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: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 0.86in. [21.9 mm]

WEIGHT: 9 oz. (255 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL

COLOR: BASE IRIDITE PER MIL-C-5541F CLASS 1A
GLOSS WHITE #17925 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
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: -80 °F TO +205 °F [-62 °C TO +96 °C])

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

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: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	THRU NO
4	Mounting Screws: 10-32, 1.25"	J507C1032R20 (93085A835)	5
4	Washer, Custom C'Sink	3G15P1001-70	3
	EPDM NON-ADHESIVE GASKET	3G15P1001-3G	
1	or ADHESIVE GASKET	12345G-3M-3G	1

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5in Dia. G5 Antenna L1L2Glonass/L1L2GPS/OmniStar SS Footprint

3CEV1 G5Ant-3A4T1-SS

SCALE: 1/1 SHEET 1 OF 1