



Antcom's **G5 Antenna**, Active **L1/L2 Glonass + L1/L2 GPS + OmniStar** Antenna, P/N: **G5Ant-72CAT1** **Conical Choke Ring, Survey Mount Configuration** **(with Filters, better RTK Performance, Optimized for L1/L2 Glonass & L1/L2 GPS & OmniStar)**



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X, Y Phase Center = 0.0
Z Phase Center = 3.043 [77.33]

5/8"-11 Thread
1"-14 Thread (Optional)

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

SPECIFICATIONS

ELECTRICAL:

	L1 GPS E5, E5a, E5b Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E5 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	1178.45 ± 12 MHz 1184.45 - 1218.14 MHz 1178.45 ± 15 MHz	1227.60 ± 12 MHz 1207.14 ± 10 MHz	1252.50 ± 7.5 MHz 1296.75 - 1296.75 MHz 1298.52 ± 10 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.068 ± 10 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1580 ± 7.0 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 (dBd):	@ 90° Elevation					
	+ 3	+ 4.5	+ 1.4	+ 4.7	+ 6.9	+ 6.0
	@ 15° Elevation	- 4.7	- 8.2	- 6.5	- 4.1	- 5.4
	@ 20° Elevation	- 5.1	- 8.9	- 4.3	- 2.0	- 3.1
	@ 30° Elevation	- 1.0	- 5.3	- 2.9	- 0.1	- 1.2
	@ 60 - 90° Elevation	> - 5	> - 3.3	> - 2.7	> + 5.0	> + 4.0
BEAM WIDTH (3dB):	70 Deg	80 Deg	75 Deg	70 Deg	70 Deg	70 Deg
AXIAL RATIO:	1.5 dB	1 dB	1 dB	2 dB	1 dB	4 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/50mA, 3V/20mA, 3.3V/50mA, 2.5-24V/50mA					
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (A-L)					

MECHANICAL:

SIZE: DIAMETER: 7.01in. [178mm]
HEIGHT: 6.279in. [159.48mm]

WEIGHT: 1.82lbs. (825g)

FINISH: SKYDROLRESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541 CLASS 1A

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

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

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]

ALTITUDE: 70,000ft

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

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

QTY	DESCRIPTION	PART NO	REV
1	Radome	72GNSS2-A-X1-R2	5
1	1"-14 Mount (Optional)	NTR-282	4
1	5/8"-11 Mount	NTR-28-05	3
1	Choke Ring	701215FO01-B3-S Rev H	2
			1
			1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF
DIMENSIONS ARE TO BE MAINTAINED ± 1/64
DIMENSIONS ARE TO BE MAINTAINED ± 1/32

FINISHES (UNLESS OTHERWISE SPECIFIED):
DIMENSIONS ARE TO BE MAINTAINED ± 1/64
DIMENSIONS ARE TO BE MAINTAINED ± 1/32

DO NOT SCALE DRAWINGS

ANTCOM CORP. Torrance, CA 90501
SURVEY MOUNT,
L1/L2 Glonass/L1/L2 GPS/OmniStar
G5 Conical Choke Ring Antenna

3CVE1 G5Ant-72CAT1

SCALE: 1/1" = 1" REV: 1 OF 1

P/N: G5Ant-72CAT1 **Connector Color**

REV	DATE	DESCRIPTION	BY	CHKD	APP'D
1	7/2/09	42 ANTENNA			
2	7/2/09	52 2" DIA. ON B" GROUND PLANE			
3	7/2/09	72 7" DIA. CONICAL CHOKE RING			
4	7/2/09	82 4" DIA. CONICAL CHOKE RING			

CC: 3CVE1, NAICS: 334511, S.H., 9/6/2009

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