

Active L1/L2 Glonass + L1/L2 GPS + OmniStar/TerraStar Antenna  
 P/N: G5Ant-4AMNT1 (with Flush Magnets), P/N: G5Ant-4AN2T1 (No Magnets)

Mini Arinc Configuration with Side Connector

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

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

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

3.400 [86.36]

2.200 [55.88]

1.013 [25.73]

**NOTICE OF PROPRIETARY RIGHTS**  
 THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION. THESE DATA BELONG TO ANTCOM CORPORATION AND ARE THE PROPERTY OF ANTCOM CORPORATION. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ANTCOM CORPORATION.

R6.000 [R152.40]

1.013 [25.73]

.300 [7.62]

.823 [20.91]

2.470 [62.74]

10-32 UNF .260 DEEP

3X 6-32 UNC .200 DEEP

TNC FEMALE CONNECTOR  
 OPTION: MCX, QMA, SMA, SMB, SSMA, SSMB, SSMC, SSMP, MCX, OR SMP

**P/N: G5Ant-4AMNT1**

SIZE:	LINA:	CONNECTOR:	COLOR:
1: 2" SQ.	4:2 ARINC 743	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	6:2.6" DIA. ON 6" GROUND PLANE	M: MCX; MM: MMX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	7: 2" DIA. CHOKER RING	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
3: 3.8" DIA.		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC			-5: TAN #1: FS 23446 or 33446, FED-STD-595

**ELECTRICAL:**

	L5 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:	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	
VSWR:	< 2.0:1		< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms		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	+ 2.6	+ 4.8	+ 2.4	+ 2.0	+ 3.0
@ 10° Elevation:	- 9	- 10	- 3.5	- 3.5	- 6.5	- 6.3
@ 20° Elevation:	- 8	- 7	- 2.0	- 0.3	- 4.7	- 3.2
@ 30° Elevation:	- 6	- 5	- 0.4	+ 1.8	- 3.4	- 1.2
@ 60-90° Elevation:	> -4	> -4	> 1.3	> 2.6	> -0.1	> +1.1
BEAM WIDTH (3dB):	110 Deg.	120 Deg.	110 Deg.	115 Deg.	105 Deg.	110 Deg.
AXIAL RATIO:	1.5 dB	2 dB	1 dB	1 dB	2 dB	1 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: 1.013 in. [25.73 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: MCX, QMA, SMA, SMB, SSMA, SSMB, SSMC, SSMP, MCX, OR SMP

**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

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS	DECIMALS	ANGLES
± 1/64	.0005 .001	± 1°

TOLERANCE 5V PER ANS Y14.5

REMOVE ALL BURRS

DEBurr EXTERNAL EDGES .005 TO .015

DEBurr INTERNAL EDGES PER MIL-C-8878

3X ON A CORNER & 2X OTHER

FINISH: MACHINED SURFACES 125

DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE, CALIFORNIA

Mini Arinc  
 L1L2Glonass/L1L2GPS/OmniStar  
 G5 ANTENNA

REV: 13CVE1  
 G5Ant-4AMNT1

SCALE 1/1

SHEET 1 OF 1