Active L1/L2 Glonass + L1/L2 GPS + OmniStar/TerraStar + PCS/Wifi Antenna

P/N: G5Ant-2BATT1-Wifi

P/N: G5Ant-2BATT1-2325 (2.3 – 2.5 GHz)

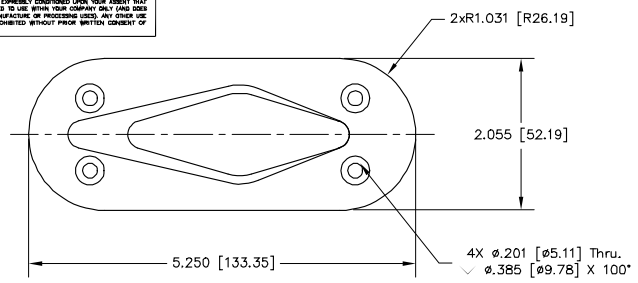
(Other Frequency, Connector and Color are Available)

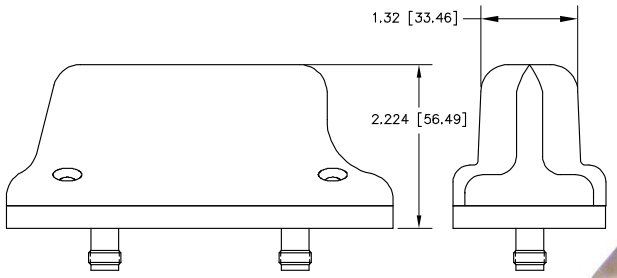
Antenna Mounts: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf

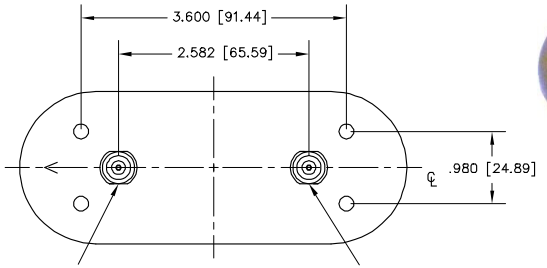
ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

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

NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING USES). ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM, CORP.

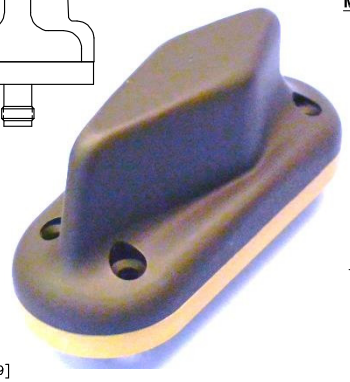






GNSS
TNC FEMALE CONNECTOR
(OPTION: SMA, BNC, N, SMB)

L-Band, PCS/Wi-Fi
TNC FEMALE CONNECTOR
(OPTION: SMA, BNC, N, SMB)



SPECIFICATIONS

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	L-Band PCS/Wi-Fi
FREQUENCY (MHz):	1176.45 ± 12 1164.45 - 1219.14 1176.45 ± 15	1227.60 ± 12 1207.14 ± 10	1252.50 ± 7.5 1266.75 - 1290.75 1268.52 ± 10	1542.50 ± 14.0 1542.50 ± 6.0 1561.098 ± 10	1575.42 ± 15.0 1575.42 ± 17.0 1575.42 ± 12.0	1609 ± 7.0	1990 2300-2500, 4400-5900
RADIATION PATTERN:	HEMISPHERICAL						OMNI
POLARIZATION:	RHCP	RHCP	RHCP	RHCP	RHCP	RHCP	VERTICAL
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	(2.0-3.5):1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBic):							
@ 90 ° (ZENITH):	- 1	+ 5.3	+ 2.8	+ 2.8	+ 4.9	+ 4.7	(0-3.8) dBil
@ 10 ° Elevation:	- 9	- 2.7	- 5.2	- 6.0	- 3.8	- 4.2	
@ 20 ° Elevation:	- 7	- 0.9	- 3.6	- 4.2	- 2.1	- 2.3	
@ 30 ° Elevation:	- 6	+ 0.4	- 2.4	- 2.4	- 0.3	- 0.6	
@ 60 - 90 ° Elevation:	> - 3	> 4.2	> 1.6	> + 1.3	> + 3.4	> + 3.2	
BEAM WIDTH (3dB):	85 Deg.	90 Deg.	90 Deg.	80 Deg.	80 Deg.	82 Deg.	OMNI
AXIAL RATIO:	1.5 dB	1 dB	1 dB	3 dB	1 dB	4 dB	N/A
LIGHTNING PROTECTION:	DC GROUNDING						N/A
LNA GAIN:	35 dB	35 dB	35 dB	33 dB	33 dB	33 dB	N/A
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, (2.5-24)V/<50mA						
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)						

MECHANICAL:

SIZE: WIDTH: 2.055 in. [52 mm], LENGTH: 5.25 in. [133 mm], HEIGHT: 2.224 In. [56.49 mm]

WEIGHT: <8 oz. (227g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F

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

70,000 ft.

VIBRATION: > 30 G's

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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	ITEM NO
				2
4	SCREW, MOUNTING	MS24693C273, ITEM 583	–	1

PARTS LIST

P/N: G5Ant-2BATT1-Wifi

SIZE:		LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	2B: 2" Blade	A: WITH LNA	X: NO CABLE	S: SMA; SMB; SMBR; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	5B: 5" Blade	P: WITHOUT LNA		M: MCX; MM; MMCX; MMR; MMCX-R	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	52: 2.6" DIA. ON 5" GROUND PLANE			N: N; NB: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
3: 3.5" DIA.	72: 7" DIA. CHOKE RING			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC				SMC, SSMC, SSMB, SSMA	-5: DESERT TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES (EXCEPT AS NOTED)
FRACTIONS ± 1/64 DECIMALS .XX ± .015 .XXX ± .005 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON Ø .005
MACHINED SURFACES 125/

DO NOT SCALE DRAWING

ORIGINALLY DRAWN S. HUYNH Mar-20-11
ORIGINALLY DESIGNED S. HUYNH Mar-20-11
UPDATED S. HUYNH Dec-01-15
UPDATE DRAWN P. TRAN Dec-01-15
APPROVED S. HUYNH Dec-01-15

ANTCOM CORP. TORRANCE CALIFORNIA

L1L2-GPS/L1L2-Glonass/OmniStar, PCS/Wifi Antenna

SIZE D | CAGE NO 3CVE1 | DRAWING NO G5Ant-2BATT1-Wifi | REV

SCALE 1/1 | SHEET 1 OF 1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED