



FAA Approved Facility

Handheld GNSS Helix Antenna

P/N: 6DG8A-XTM-1-Hybrid

1" Dia. x 6.5" Tall, Swivel, Side Mount Configuration

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



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ELECTRICAL:

	L1 GPS	Rx INMARSAT	Tx INMARSAT	L1 GLONASS	IRIDIUM	B3 Compass E6 Galileo L2 GLONASS/ L2 GPS	B2 Compass L5 GPS E5b Galileo
FREQUENCY (MHz):	1575.42 ±13	1542.50 ±17.5	1642.50 ±17.5	1602-1616	1616-1626	1268.52 ± 10 1266.75 - 1290.75 1252.50 ±7.5 1227.60 ±13	1207.14 ± 10 1176.45 ±12 1164.45 - 1219.14
@ 90° (Zenith):	+2.9	+1.6	+0.9	+1.7	+0.0	+2.0 to +2.6	
@ 10° Elevation:	-2.7	-4.8	-4.3	-2.8	-3.9	-5.7 to -5.8	
@ 20° Elevation:	-0.4	-2.3	-2.4	-0.7	-1.8	-3.3 to -3.6	
@ 30° Elevation:	+1.0	-0.8	-1.3	+0.6	-0.6	-1.6 to -2.0	
@ 45° Elevation:	+2.5	+0.8	-0.3	+1.9	+0.5	+0.1 to +0.4	
@ 70° Elevation:	+2.9	+1.5	-0.4	+1.9	+0.4	+1.7 to +2.2	
BEAM WIDTH (3dB)	132 Deg.	124 Deg.	145 Deg.	139 Deg.	142 Deg.	100 Deg. to 110 Deg.	
AXIAL RATIO:	1 dB	1 dB	1 dB	1 dB	1 dB	1 dB	
RADIATION PATTERN:	HEMISPHERICAL						
POLARIZATION:	RHCP						
VSWR:	2:1						
DC GROUNDING:	YES (LIGHTNING PROTECTION)						

LNA OPTION:
LNA GAIN: (22.0+/-2.0) dB
LNA NOISE FIGURE: 2.8 dB (Filter loss is Included)
LNA P 1dB Out: +13 dBm
VOLTAGE/CURRENT: (+2.4 TO +5) Volts DC / (15 TO 30) mA
REJECTION: SAW FILTER

MECHANICAL:
SIZE: DIAMETER: 1.00 in. [25.40 mm]
HEIGHT: 6.50 in. [162.07 mm]
WEIGHT: 1.715 oz (48.62 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: TNC MALE
(OPTION: MCX, SMA, TNC Bulkhead, N, N Bulkhead,
MCX, MMCX, QMA, or Cable)

ENVIRONMENTAL:
TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:
DESIGN TO: 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

1	1	-	-	-	-	-	1
QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	TEST	NO.
-2	-1						

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS: DECIMALS: ANGLES:
± 1/64 ± .005 ± 1°
TOLERANCE SURF PER ANSI Y14.5
REMOVE ALL SHARP
BREAK EXTERNAL EDGES .005 TO .015
FILLET R .005 TO R .010
SREW THREADS PER MIL-STD-2087A
DATE ON A COMMON S. OF .005
MACHINED SURFACES
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
HANDHELD GNSS HELIX ANTENNA
DATE: 30-15
APPROVED: S. HUYNH June-22-16
SCALE: 1/1 SHEET 1 OF 1

FREQ. BAND:
1215: L1/L2
15: L1 ONLY
1216: L1/L2/INMARSAT/GLONASS/IRIDIUM
5: L1/L2/GPS/GLONASS/INMARSAT/IRIDIUM

LNA:
A: WITH LNA
P: WITHOUT LNA

CONNECTOR:
S: SMA; P: PINS
M: MCX; MIM: MMCX
N: NB; N: N-Bulkhead
T: TB; TM: TNC-Male

COLOR:
-1: GLOSS WHITE #17925 PER FED-STD-595B
-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
-3: CAMO GREEN #34094 PER FED-STD-595B
-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
-5: DESERT TAN #33446 PER FED-STD-595B

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