



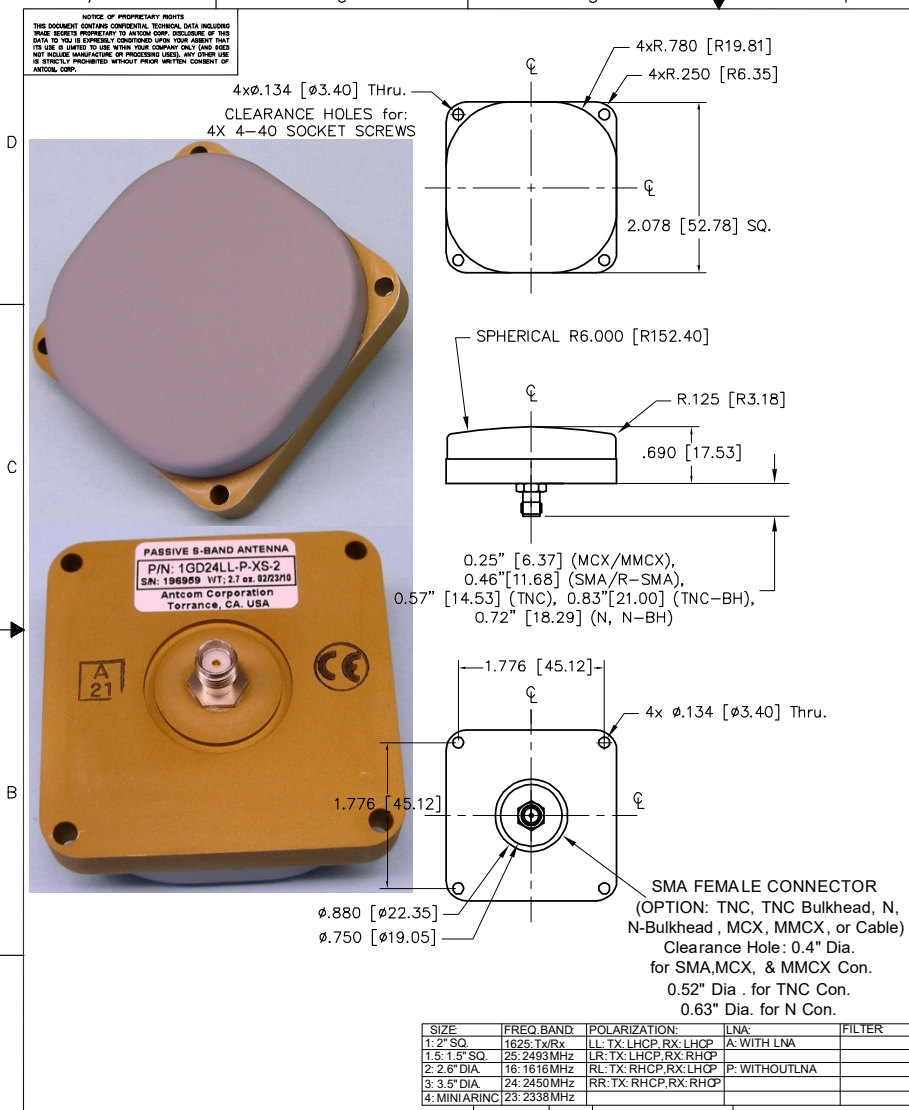
FAA Approved Facility

Antcom's 802.11/WiFi Antenna, P/N: 1GD24RR-P-XS-1 (RHCP), P/N: 1GD24LL-P-XS-1 (LHCP), 2in Square, Top Mount, Bottom Center Connector Configuration

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



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SPECIFICATIONS

ELECTRICAL:

REVISIONS	
ZONE	DESCRIPTION

FREQUENCY:	(2400 - 2500) MHz	SEE PART NO. BELOW
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	Vertical/Horizontal	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P. Free Space	
@ 90° (Zenith):	+4.6 +5.6	
@ 10° Elevation (Ave):	-1.1 -1.4	
@ 20° Elevation (Ave):	+2.2 +0.5	
@ 30° Elevation (Ave):	+2.2 +1.8	
@ 45° Elevation (Ave):	+3.4 +3.1	
@ 70° Elevation (Ave):	+4.4 +5.4	
BEAM WIDTH(3dB):	110° +100°	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]
HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 2.88 oz. (82 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDIUM PER MIL-C-5441

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

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

ENVIRONMENTAL:

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

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

TABLE 1: ANTENNA CONFIGURATIONS

SIZE	FREQ. BAND	POLARIZATION:	LNA:	FILTER
1: 2" SQ.	1625 Tx/Rx	LL: TX: LHCP, RX: LHCP	A: WITH LNA	
1.5: 1.5" SQ.	25: 2493MHz	LR: TX: LHCP, RX: RHCP		
2: 2.6" DIA.	16: 1616MHz	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	
3: 3.5" DIA.	24: 2450MHz	RR: TX: RHCP, RX: RHCP		
4: MINIARINC	23: 2338MHz			

TABLE 2: CONNECTOR OPTIONS

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSSWHITE#17925PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY#36320PER FED-STD-595B
#: CABLE LENGTH (IN)	N: N (Optional Bulkhead)	-3: OLIVE DRAB GREEN#34031PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC (Optional Bulkhead)	-4: LUSTERLESS BLACK#37038PER FED-STD-595B

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

ANTCOM CORP. TORRANCE, CALIFORNIA

OUTLINE DRAWING
802.11
ANTENNA

P/N: 1GD24LL-P-XS-X

SCALE 1/1

SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
 $\pm 1/64$.0015 .005 $\pm 1^\circ$

TOLERANCE 51M PER ANSI Y14.5

REWORK ALL SURFACES BEFORE INTERNAL EDGES .005 TO .015
REMOVE ALL SURFACES FROM ALL SURFACES .005 TO .015
REMOVE ALL SURFACES FROM ALL SURFACES .005 TO .015
REMOVE ALL SURFACES FROM ALL SURFACES .005 TO .015

DO NOT SCALE DRAWING

APPROVED: S. HUYNH Aug-25-09

DESIGNED: DJ3CVE1

DRAWN: DJ3CVE1

CAP FILE NO: 1GD24LL-P-XS-1

NMO Connector Option is Now Available for Some Antennas