



FAA Approved Facility

(0.81-0.96) GHz Antennas, P/N: 3G0.81-0.96RR-P-XTBC-1 (RHCP); P/N: 3G 0.81-0.96 LL-P-XTBC-1 (LHCP) **GSM 800**
 (1.25-1.35) GHz Antennas, P/N: 3G1.25-1.35RR-P-XTBC-1 (RHCP); P/N: 3G1.25-1.35LL-P-XTBC-1 (LHCP)
 (1.35-1.45) GHz Antennas, P/N: 3G1.35-1.45RR-P-XTBC-1 (RHCP); P/N: 3G1.35-1.45LL-P-XTBC-1 (LHCP)
 (1.70-1.90) GHz Antennas, P/N: 3G1.70-1.90RR-P-XTBC-1 (RHCP); P/N: 3G1.70-1.90LL-P-XTBC-1 (LHCP) **GMM 1800**
 (1.90-2.20) GHz Antennas, P/N: 3G1.90-2.20RR-P-XTBC-1 (RHCP); P/N: 3G1.90-2.20LL-P-XTBC-1 (LHCP) **UMTS 2100**
 (2.00-2.30) GHz Antennas, P/N: 3G2.00-2.30RR-P-XTBC-1 (RHCP); P/N: 3G2.00-2.30LL-P-XTBC-1 (LHCP)
 (2.20-2.40) GHz Antennas, P/N: 3G2.20-2.40RR-P-XTBC-1 (RHCP); P/N: 3G2.20-2.40LL-P-XTBC-1 (LHCP)
 (2.40-2.50) GHz Antennas, P/N: 3G2.40-2.50RR-P-XTBC-1 (RHCP); P/N: 3G2.40-2.50LL-P-XTBC-1 (LHCP)
 (2.56-2.69) GHz Antennas, P/N: 3G2.56-2.69RR-P-XSC-2 (RHCP); P/N: 3G2.56-2.69LL-P-XSC-2 (LHCP)



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

Other Frequencies, Antenna Sizes, Connectors/Locations, and Mounting Configurations are Available

NMO Connector is Now Available for Some Antennas

Technical drawing details:
 Diameter: $\phi 3.500$ [88.90]
 Height: 1.900 [48.26] SQ.
 Mounting holes: 4X $\phi .201$ [$\phi 5.11$] THRU $\sqrt{\phi .385}$ [$\phi 9.78$] X 100'
 Thickness: .722 [18.34]
 Connector: TNC-FEMALE BULKHEAD CONNECTOR (OPTION: SMA, TNC, N, N-Bulkhead MCX, MMCX, or Cable)
 O-RING P/N: 2-031/N756-75
 Mounting holes (extra): 4X $.190-32$ UNC .250 DEEP (FOR EXTRA MOUNTING OPTION)
 Spacing: 1.945 [49.39] SQ.
 Spacing: 23.84"

SPECIFICATIONS

ELECTRICAL:

RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP or LHCP
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space
@ 90° (Zenith):	+4.6 +6.1
@ 10° Elevation (Ave):	-1.1 -2.4
@ 20° Elevation (Ave):	+2.2 -0.3
@ 30° Elevation (Ave):	+2.2 +1.0
@ 45° Elevation (Ave):	+3.4 +2.9
@ 70° Elevation (Ave):	+4.4 +5.3
Beam Width (3dB):	110° 88°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

SIZE: DIAMETER = 3.50 in. [88.90 mm]
 HEIGHT = 0.722 in. [18.34 mm]
 WEIGHT: 5.15 oz. (.146 Kg)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDIUM PER MIL-C-5441F
 COLOR: GLOSS WHITE #17925 PER FED-STD-595B
 LUSTERLESS GRAY #36320 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
 CONNECTOR: TNC-FEMALE BULKHEAD (OPTION: SMA, TNC, 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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ZONE	REV	DESCRIPTION	DATE	APPROVED

SIZE	(START - END) FREQ.	POLARIZATION:	LNA:	FILTER:
1: 2" SQ.	1.25 - 1.35 GHz	LL, LHCP	A1: WITH +23 dB LNA	
1.9: 1.9" SQ.	1.35 - 1.45 GHz	RR, RHCP	A2: WITH +43 dB LNA	
2: 2.6" DIA.	2.00 - 2.30 GHz		P: WITHOUT LNA	
3: 3.5" DIA.	2.20 - 2.40 GHz			
4: MINI ARINC	2.40 - 2.50 GHz			
	X XX . Y YY GHz			

QUANTITY	RECD	DESCRIPTION	PART NO	MATERIAL	FINISH	REV

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX, MM, MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: NB, N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES
± 1/64 .001 .010
TOLERANCE SURF PER ANS Y14.5
REMOVE ALL BURRS
BREW LATERAL EDGES .000 TO .010
FILLET R .010 TO R .030
SCREW THREADS PER MIL-S-8879
DAYS IN A CANON 1, 2, 4, 10, 20, 100
MACHINED SURFACES
DO NOT SCALE DRAWING

DATE	CHKD	APP'D	REV

SCALE	1/1	SHEET	1 OF 1

P/N: 3GX.XX-Y.YYRR-P-XTBC-1

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia. FLAT FIXED MOUNT L/S/WIFI ANTENNA

PART NO: 3GVE1