

# L1/L2 GPS/L-Band Antenna, P/N: 3GOXX16A4-XTR-1

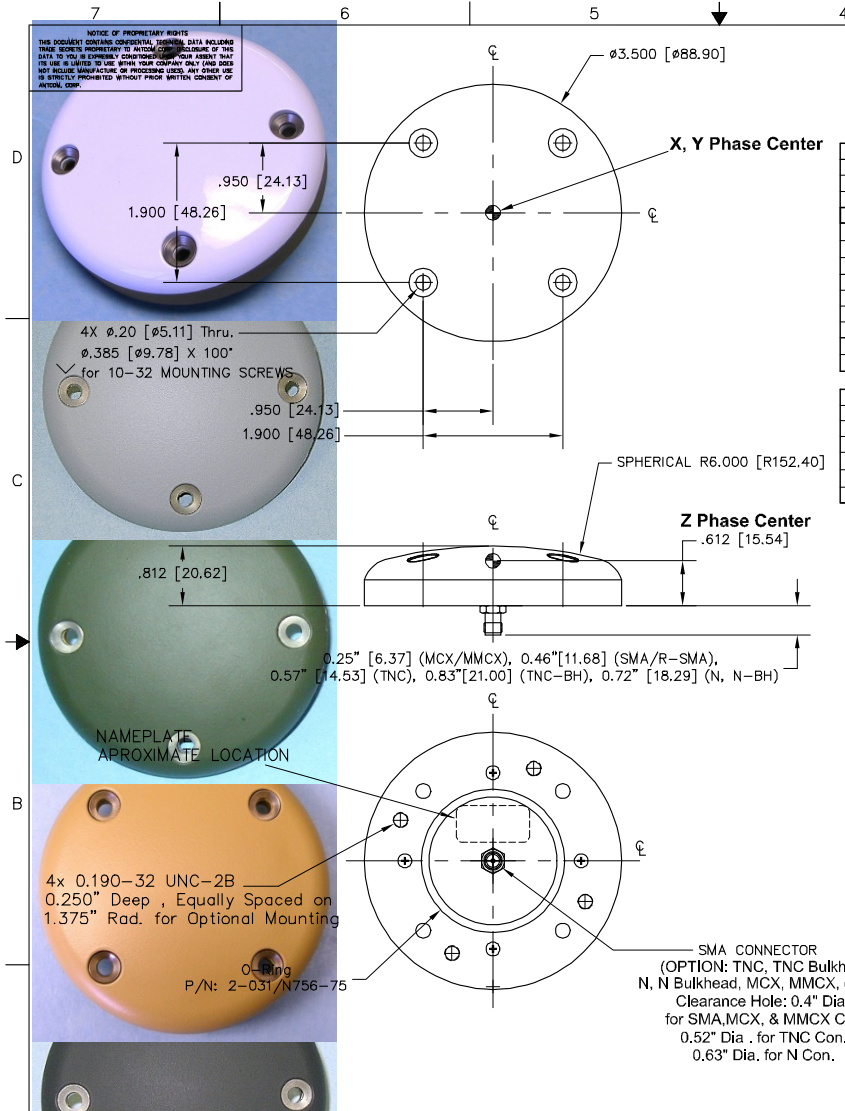
## TSO Cert P/N: 3GO1216A4-XTR-1

### 3.5" Diameter, Front/Back/Pipe Mount Configurations

Noise Figure is Now Improved to 1.9 dB for L1 GPS/OmniStar/Glonass and 2.3 dB for L1/L2 GPS/OmniStar/Glonass as of June-01-14  
 Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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



### SPECIFICATIONS

#### ELECTRICAL:

FREQUENCY (MHz):	L2/L5 GPS/ L2/L3 Glonass/ E5A/E5B/E5 Galileo	L2 GPS	Rx L-Band/ L6 Galileo	L1 GPS/ L1/E1/E2 Galileo	L1 Glonass
	(1146 -1301)	(1227.60 ±12)	(1525 - 1560)	(1555 - 1595)	(1602 - 1626)
ANTENNA GAIN (dBi):	Free Space	4 ft. G.P.	Free Space	4 ft G.P.	Free Space
@ 90° (ZENITH):		+3.3 +4.9	+3.1	+5.5 +4.5	+4.3
@ 10° Elevation:		-3.8 -3.6	-3.7	-1.2 -1.4	-2.2
@ 20° Elevation:		-2.0 -0.1	-2.0	+0.3 +1.4	-0.6
@ 30° Elevation:		-0.5 -1.8	-1.3	+1.8 +2.2	+0.8
@ 60 - 90° Elevation:		> 2.7 > 3.0	> 2.0	> 4.8 > 3.8	>+3.5
BEAM WIDTH (3dB):		106 Deg. 75 Deg.	106 Deg.	106 Deg. 130 Deg.	106 Deg.
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP				
VSWR:	< 1.5:1				
IMPEDANCE:	50 ohms				
AXIAL RATIO:	3 dB				
LIGHTNING PROTECTION:	DC GROUNDING				
LNA OPTION:					
LNA GAIN:	40 dB (-A4), 20 dB (-A2), 35 dB (-A-)				
LNA NOISE FIGURE:	2.0 dB				
LNA P1dB Out:	+13 dBm				
LNA DC POWER:	(2.5-24)Volts @ < 39 mA				
POWER HANDLING:	200 Watts CW (WITHOUT LNA) . 1 Watt CW (WITH LNA)				

#### MECHANICAL:

**SIZE:** DIAMETER: 3.50 in. [ 88.90 mm]  
 HEIGHT: 0.812 in. [20.62 mm]

**WEIGHT:** 8.8 oz. (249 g)

**FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE 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:

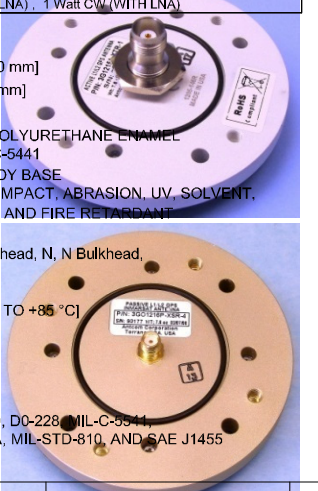
**DESIGN TO:** FAA TSO-C144, DO-160D, DO-228, MIL-C-38111, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

#### ACCEPTANCE TEST PROCEDURE:

QTY	DESCRIPTION	PART NO	REV
1	O-Ring or Gasket	2-031/N756-75 or 3G15P1001-3G	4
4	MOUNTING SCREWS: 10-32, 3/4"	J507C1032R12	3
A/R	WASHER, CUSTOM C'SINK	3G15P1001-70	
1	GASKET	3G15P1001-3G	1
-2	-1		

**P/N: 3GO1216A4-XT-1**

SIZE:	FREQ. BAND:	LNA:	CABLE LENGTH:	CONNECTOR:
1: 2" SO.	42 ARINC 723	A: 33 dB Gain	X: NO CABLE	S: SMA; P: PINS
1.5: 1.9" SO.	6: 6" CIRCULAR	A4: 40 dB Gain	M: MAG, N: NO MAG.	M: MCX; MM: MMCX
2: 2.6" DIA.	GO1216: L1/L2 GPS/L-Band	A2: 20 dB Gain	R: CABLE LENGTH (IN)	N: N; N: N Bulkhead
3: 3.5" DIA.	GO1116: L1/L2/L3/L5/L6 GPS/GNSS/Galileo	P: WITHOUT LNA	R: RIGHT; ANGLE CON.	T: TB; TNC; TNC Bulkhead
4: MINI ARINC				



NMO Connector Option is Now Available for Some Antennas