

L1/L2 GPS/L-Band Antenna, P/N: 4GO1215A-XT-2
 L1/L2 GPS/Glonass/L-Band Antenna, P/N: 4GO1216A-XT-2
 Mini Arinc Configuration

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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MECHANICAL:

WIDTH: 2.20 in. [55.88 mm], LENGTH: 3.40 in. [86.36 mm], HEIGHT: 0.86 in. [21.89 mm]

WEIGHT: 9 oz. (256 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5414

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)

ENVIRONMENTAL:

TEMPERATURE: -87 °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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

ELECTRICAL:

	L2 GPS	Rx L-Band/ L6 Galileo	L1 GPS/ L1/E1/E2 Galileo	L1 Glonass
FREQUENCY (MHz):	(1227.60 ±12)	(1525 - 1560)	(1555 - 1595)	(1598-1606)
ANTENNA GAIN (dBic):	FS/3.5° GP	4 ft G.P.	FS/3.5° GP	4 ft G.P.
@ 90° (ZENITH):	+3.3	+4.9	+3.1	+5.5
@ 10° Elevation:	-3.8	-3.6	-3.7	-1.2
@ 20° Elevation:	-2.0	-0.1	-2.0	+0.3
@ 30° Elevation:	-0.5	-1.8	-1.3	+1.8
@ 60 - 90° Elevation:	> 2.7	> 3.0	> 2.0	> 4.8
BEAM WIDTH (3dB):	106 Deg.	75 Deg.	106 Deg.	130 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 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)			

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

QUANTITY REQUIRED

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	TEST NO
4	10-32 Screw, 1.25" L	93085A835, Item 579GN			
4	Washer, Custom C'Sink	3G15P1001-70, Item 519			
1	O-Ring	2-132-N756-75, Item 558			

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

FRACTIONS ARE IN INCHES

DECIMALS ARE IN INCHES

ANGLES ± 1°

TOLERANCE SURF PER ANSI Y14.5

UNLESS ALL SURF SPEC

BREAK EXTENSION ESCAPES 005 TO 015

FILETS R .005 TO R .002

SAW IN THROATS PER MIL-C-8879

DRILL ON A COMMON & 27-005

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

G5Ant
Active L1/L2 GPS/OmniStar
& Glonass ANTENNA

D33CEV1 4GO1215A-XT-2

SCALE 1/1 SHEET 1 OF 1