

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@1660MHz

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Dimensions: 4.700 [119.38] (Length), 3.000 [76.20] (Width), 0.693 [17.60] (Height), 4x.800 [20.32] (Mounting holes), 4x1.650 [41.91] (Mounting holes), 2x3.300 [83.82] (Mounting holes), 0.236 [5.99] (Mounting hole offset), 0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA/R-SMA), 0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH), 0.148 [3.77] (Connector offset), 0.236 [5.99] (Mounting hole offset), 0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA/R-SMA), 0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH).

Callouts: X, Y Phase Center = 0,0; R2.350 [R59.69]; 4x.800 [20.32]; 4x.201 [5.11] Thru. 0.385 [9.78] X 100" for 10-32 MOUNTING SCREWS; Z Phase Center = .508 [12.89]; NAMEPLATE APPROXIMATE LOCATION; DATE STAMP APPROXIMATE LOCATION AS SHOWN; O-Ring Gasket; TNC FEMALE CONNECTOR (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable) Clearance Hole: 0.4" Dia. for SMA, MCX, & MMCX Con. 0.52" Dia. for TNC Con. 0.63" Dia. for N Con.

P/N: 42GO16A4-XT-1

SIZE:	FREQ. BAND:	LNA:	CABLE LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	42: ARINC 743	A3: 30 dB Gain	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.5: 1.9" SQ.	5: 5" CIRCULAR	A4: 40 dB Gain	M: MAG.; N: NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	GO1216: L1/L2 GPS/GNSS/L-Band	A2: 20 dB Gain	#: CABLE LENGTH (IN)	N: N; N: N Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA.	G1215: L1/L2 G1115; L1/L5	P: WITHOUT LNA	R: RIGHT ANGLE CON.	T: TB; TNC; TNC Bulkhead	-4: LUSTERLESS BLACK #37030 PER FED-STD-595B
4: MINI ARINC	GO1116: L1/L2/L3/L5/L6 GPS/GNSS/Galileo				

SPECIFICATIONS

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	S.H.
A	ADDED FILTER, ITEM 700-152W	10/19/16	S.H.

ELECTRICAL:

	Rx L-Band/ L6 Galileo	L1 GPS/ L1/E1/E2 Galileo	L1 Glonass
FREQUENCY (MHz):	(1525 - 1580)	(1555 - 1595)	(1602 - 1626)
ANTENNA GAIN (dBi):	Free Space	Free Space	4 ft G.P.
@ 90° (ZENITH):	> + 2.5	+ 4.5	> + 3.3
@ 10° Elevation:	> - 4.7	- 1.2	> - 3.2
@ 20° Elevation:	> - 3.0	+ 0.3	+ 1.4
@ 30° Elevation:	> - 2.3	+ 1.8	+ 2.2
@ 60 - 90° Elevation:	> + 2.0	> 4.8	> 3.8
BEAM WIDTH (3dB):	106 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:	3.0 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: WIDTH: 3.00 in. [76.20 mm], LENGTH 4.700 in. [119.38 mm], HEIGHT: 0.693 in. [17.60 mm]

WEIGHT: 6.8 oz. (191 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL WITH NICKEL PLATED BASE

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

CONNECTOR: TNC FEMALE CONNECTOR (OPTION: SMA, 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

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	REV
4	MOUNTING SCREW: (10-32, 1")	MS24693C276		5
1				3
1				2
	O-RING	2-036/N756-75		

ANTCOM CORP. TORRANCE CALIFORNIA

743 ARINC
 Active L1/L2 GPS/Glonass
 L-Band/Galileo Antenna

SCALE 1/1

SHEET 1 OF 1