

**L1 GPS/Glonass/L-Band/Galileo Antenna, P/N: 3GO16X-XXR-X:
3.5" Diameter Configurations, Front/back Mount**



**P/N: 3GO16X-XXR-1
(White)**



**P/N: 3GO16X-XXR-2
(Gray)**



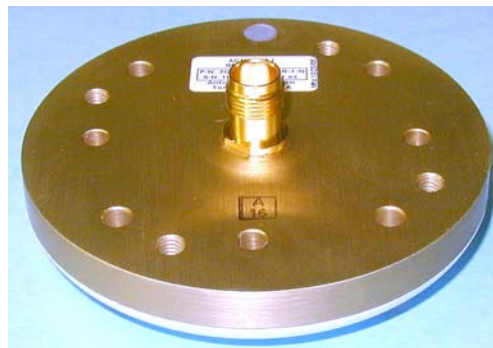
**P/N: 3GO16X-XXR-3
(Green)**



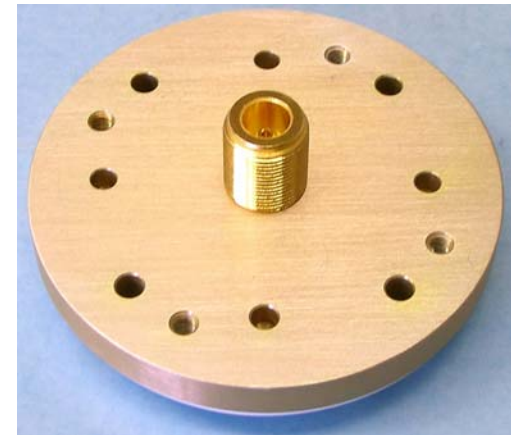
**P/N: 3GO16X-XXR-4
(Black)**



P/N: 3GO16X-XSR-X (SMA)



**P/N: 3GO16X-XTR-X
(TNC)**



**P/N: 3GO16X-XNR-X
(N)**

Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)

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4X ϕ .20 [ϕ 5.11] Thru.
 \checkmark ϕ .385 [ϕ 9.78] X 100"
for 10-32 MOUNTING SCREWS

SPHERICAL R6.000 [R152.40]

X, Y Phase Center = 0,0
Z Phase Center = .632 [16.05]

NAMEPLATE APPROXIMATE LOCATION

4x 0.190-32UNC-2B
0.250" Deep, Equally Spaced on
1.375" Rad. for Optional Mounting

TNC 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: 3GO16A4-XTR-1

SIZE	FREQ. BAND	LNA	CABLE LENGTH	CONNECTOR	COLOR
1.2" SQ.	42: ARINC743	GO1216:L1/L2GPS/GNSS/L-Band	A2: WITH 20 dB LNA	X: NO CABLE	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9" 1.9" SQ.	5: 5" CIRCULAR	GO1215:L1/L2GPS/L-Band	A4: WITH 40 dB LNA	M: MAG. N; NO MAG	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2.2" 6" DIA.		GO16:L1 GPS/GNSS/L-Band	P: WITHOUT LNA	N: NB; N; N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3.3" DIA.		G1215:L1/L2	R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC		GO1116:L1/L2/L3/L5/L6GPS/GNSS/Galileo			

SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	Rx L-Band/ L6 Galileo	L1 GPS/ L1/E1/E2Galileo	L1 Glonass
FREQUENCY(MHz):	(1525 - 1560)	(1555 - 1595)	(1602 - 1626)
ANTENNA GAIN(dBic):	Free Space	Free Space	4 ft G.P. Free Space
@ 90° (ZENITH):	> +2.5	+5.5	+4.5
@ 10° Elevation	> -4.7	-1.2	-1.4
@ 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
BEAMWIDTH(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)Vols @ < 39 mA

MECHANICAL:

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

WEIGHT: 8.0 oz. (226.8 g)

FINISH: SKYDROL RESISTANT POLYURETHANENAMEL
BASE IRIDITE PER MIL-C-5441

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

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

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000ft.

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 J1452

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PART NO	ITEM NO
4	MOUNTING SCREWS: 10-32, 3/4"	J507C1032R12, or 93085A831	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-70	3
1	GASKET	3G15P1001-3G	1
-2	-1		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS: DECIMALS: ANGLES
± 1/64 ± .015 ± 1°
300± .005 ± 1°

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

Active L1 GPS /Glonass/L-Band ANTENNA

3CVE1 3GO16A4-XTR-1

SCALE 1/1 SHEET 1 OF 1