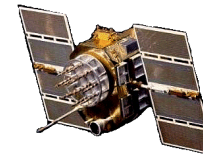




Iridium/L1 GPS & Wi-Fi Antenna, P/N: 3D1625RV-XX-X; Iridium/L1 GPS & UHF Antenna, P/N: 3D0916VR-XX-X
L1/L2 GPS & Wi-Fi Antenna, P/N: 3D121525A-XX-X; L1/L2 GPS & UHF Antenna, P/N: 3D091215A-XX-X
1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations



ISO 9001:2008/FAA Approved Facility Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

ANTCOM CORPORATION . 367 Van Ness Way, #602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

NOTICE OF PROPRIETARY RIGHTS
 THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR AGREEMENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY AND DOES NOT INCLUDE MANUFACTURE OR REPRODUCTION, AND OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

MECHANICAL:

SIZE: DIAMETER: 1.00 in. [25.40 mm]
 HEIGHT: 4.2 in. [106.68 mm]

WEIGHT: 3.3 oz (93.55 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441

COLOR: OLIVE DRAB GREEN #34031 PER FED-STD-595B

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

CONNECTOR: 4.5" Long Flexible Cable with Right Angle MMCX Connector (OPTION: MCX, SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, QMA, 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

DC GROUNDING: YES (LIGHTNING PROTECTION)

LNA OPTION:

LNA GAIN: (22.0+/-2.0) dB
 LNA NOISE FIGURE: 2.0 dB
 LNA P 1dB Out: +13 dBm
 VOLTAGE/CURRENT: (+2.4 TO +5) Volts DC / (15 TO 30) mA

MECHANICAL:

SIZE: DIAMETER: 1.00 in. [25.40 mm]
 HEIGHT: 4.2 in. [106.68 mm]

WEIGHT: 3.3 oz (93.55 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441

COLOR: OLIVE DRAB GREEN #34031 PER FED-STD-595B

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

CONNECTOR: 4.5" Long Flexible Cable with Right Angle MMCX Connector (OPTION: MCX, SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, QMA, 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

SPECIFICATIONS		REVISIONS	
ZONE	REV	DESCRIPTION	DATE

PORT:	J1					J2
FREQUENCY (MHz):	(1575.42±15)	(1542.50±17.5)	(1642.50±17.5)	(1610-1626)	(1227.60±15)	(2400-2500)
GAIN in FS/3in GP (dBic)	L1 GPS	Rx INMARSAT	Tx INMARSAT	IRIDIUM	L2 GPS	Wi-Fi
@ 90° (Zenith):	+1.4/+1.1	+1.1/+0.7	+0.1/-0.3	+0.5/+0.1	-5.0	>2.5 dB
@ 10° Elevation:	-1.5/-0.9	-2.0/-1.6	-2.1/-1.9	-2.0/-1.6	-6.5 to -11.5	
@ 20° Elevation:	-0.5/-0.2	-1.0/-0.8	-1.1/-1.1	-0.9/-0.8	-6.2 to -9.2	
@ 30° Elevation:	+0.2/+0.3	-0.2/-0.2	-0.7/-0.8	-0.3/-0.7	-5.7 to -7.7	
@ 45° Elevation:	+0.7/+0.6	+0.5/+0.3	-0.2/-0.7	+0.3/-0.3	-4.6 to -6.0	
@ 70° Elevation:	+1.2/+0.3	+1.0/+0.3	-0.4/-1.6	+0.2/-0.7	-4.0	
BEAM WIDTH (3dB)	152/173 Deg.	150/173 Deg.	170/180 Deg.	160/182 Deg.	(107 to 170) Deg.	50 ° x360 °
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 5	
RADIATION PATTERN:	HEMISPHERICAL					Omni
POLARIZATION:	RHCP					Vertical
VSWR:	< 1.5:1					

DC GROUNDING: YES (LIGHTNING PROTECTION)

LNA OPTION:

LNA GAIN: (22.0+/-2.0) dB
 LNA NOISE FIGURE: 2.0 dB
 LNA P 1dB Out: +13 dBm
 VOLTAGE/CURRENT: (+2.4 TO +5) Volts DC / (15 TO 30) mA

MECHANICAL:

SIZE: DIAMETER: 1.00 in. [25.40 mm]
 HEIGHT: 4.2 in. [106.68 mm]

WEIGHT: 3.3 oz (93.55 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441

COLOR: OLIVE DRAB GREEN #34031 PER FED-STD-595B

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

CONNECTOR: 4.5" Long Flexible Cable with Right Angle MMCX Connector (OPTION: MCX, SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, QMA, 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

P/N: 3D121625RV-4.5MM-3

FREQ. BAND:	1	2	3	4	5	6	7
1215: L1/L2							
15: L1 ONLY							
1216: L1/L2 GPS/Inmarsat/Iridium							
121625: L1/L2 GPS/Inmarsat/Iridium and Wi-Fi							

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLES LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; Q: QMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG; N: No MAG	W: MMCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: 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

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

TOLERANCE .5MM PER ANSI Y14.3 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILE 5 JOES TO R .000 SCREW THREADS PER MIL-S-8879 5/16" ON A CONICAL 6.25 DIA MACHINED SURFACES

DO NOT SCALE DRAWING

DATE	ZONE	REV	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	QTY

ANTCOM CORP. TORRANCE CALIFORNIA

HANDHELD L1/L2 GPS/INMARSAT/IRIDIUM/Wi-Fi ANTENNA

DESIGNED: M. BOAS Aug-15-03
 ENGINEER: S. HUYNH Aug-15-03
 APPROVED: S. HUYNH Aug-15-03
 DRAW FILE NO: D3CVE1 3D121625RV-4.5MM-3

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas