



ISO 9001:2008/FAA Approved Facility

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

L1 GPS & GSM (810-996MHz) Antenna: P/N: 2B15GSMRV-AP-XTT-1, P/N: 2B1215GSMRV-AP-XTT-1 (for L1/L2)
 L1 GPS & WIFI (2.4-2.5GHz) Antenna: P/N: 2B1524RV-AP-XTT-1, P/N: 2B121524RV-AP-XTT-1 (for L1/L2)
 L1 GPS & Quad Band (0.810-2.5GHz) Antenna: P/N: 2B15QBRV-AP-XTT-1, P/N: 2B1215QBRV-AP-XTT-1 (For L1/L2)
 L1 GPS & Wide Band (0.810-5.9GHz) Antenna: P/N: 2B15WBRV-AP-XTT-1, P/N: 2B1215WBRV-AP-XTT-1 (For L1/L2)
 L1 GPS & Wide Band 2 (2.4-5.9GHz) Antenna: P/N: 2B15WB2RV-AP-XTT-1, P/N: 2B1215WB2RV-AP-XTT-1 (For L1/L2)
 L1 GPS & L/S-Band 2 (1.6-2.5GHz) Antenna: P/N: 2B15LSRV-AP-XTT-1, P/N: 2B1215LSRV-AP-XTT-1 (For L1/L2)



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

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SPECIFICATIONS

ELECTRICAL:

	WIFI	GPS
FREQUENCY:	(2400 - 2500) MHz	L1: (1575.42 ±13)
RADIATION PATTERN:	OMNIDIRECTIONAL	HEMISPHERICAL
POLARIZATION:	VERTICAL	RHCP
VSWR:	2.0:1	< 1.5:1
GAIN (dB):	> 2 dB	F.S. 4 ft G.P
@ 90° Zenith:	+4.6	+2.9
@ 10° Elevation:	-2.5	-1.8
@ 20° Elevation:	-1.1	+0.7
@ 30° Elevation:	+0.5	+1.7
@ 45° Elevation:	+2.1	+1.9
@ 60° to 90° Elevation:	> 3.6	> 2.1
BEAM WIDTH (3dB):	103 °	146 °
AXIAL RATIO @ Zenith:	2 dB	
POWER HANDLING:	1 Watt	
LIGHTNING PROTECTION:	DC GROUNDING	
FILTER (REJ. @1616 MHz):	> 60 dB	
LNA GAIN:	(33.0+/-1.0) dB, 20dB (-A2- Option)	
LNA P 1dB Out:	+16 dBm	
LNA NOISE FIGURE:	2.8 dB (Filter loss is Included)	
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (30 TO 50) mA	

MECHANICAL:

SIZE: WIDTH 2.06 in. [52.4 mm], LENGTH 5.25 in. [133.4 mm], HEIGHT 2.22 in. [56.49 mm]

WEIGHT: 7.4 oz. (210g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5541F

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B
 GLOSS WHITE #17925 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B

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

CONNECTOR: TNC-FEMALE (OPTION: SMA, N, BNC)

MOUNTING: FLAT FIXED MOUNT; 10-32 MOUNTING SCREWS ARE PROVIDED

ENVIRONMENTAL:

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

ALTITUDE: 70,000 ft.

VIBRATION: 30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-STD-461E/F, SAE J1455
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-S-901D, MIL-STD-167-1A

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

D

C

B

A

5.250 [133.35]

2xR1.031 [R26.19]

2.062 [52.37]

4xø.201 [ø5.11] Thru. ø.385 [ø9.78] X 100°

1.317 [33.46]

2.224 [56.49]

1.920 [48.77]

TNC FEMALE CONNECTOR (OPTION: SMA, N, BNC, or F)

3.600 [91.44]

GPS

WIFI

.980 [24.89]

1.291 [32.79]

1.291 [32.79]

6B: Blade, 63: Rod

NOTICE OF PROPRIETARY RIGHTS

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2. O-RING AND MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

2B1524RV-A2P-XTT-1

SIZE:	Frequency	Other Band	GPS/RX only LNA:	DC BLOCK/LIMITER:
1: 2" SQ.	15: L1 GPS	C: (4.4-5.9) GHz	A2: WITH +20 dB LNA	DL: WITH DC BLOCK & WITH LIMITER
1.9: 1.9" SQ.	1215: L1/L2 GPS	24: (2.4-2.5) GHz	A3: WITH +33 dB LNA	& WITH LIMITER
2: 2.0" DIA.	GS: L1/L2 GPS/Glonass	L: (1.6-2.0) GHz	F: WITHOUT LNA	BLANK WITHOUT DC BLOCK NOR LIMITER
3: 3.5" DIA.		L/S: (1.6-2.5) GHz		
4: MINI ARINC		GSM: (810-996) MHz		
		QB: (0.810-2.5) GHz		
		WB: (0.810-5.9) GHz		
		WB2: (2.4-5.9) GHz		

CABLE'S LENGTH:	UHF/Other-Band CON.	COLOR:
N: NO CABLE	S: SMA; B: BNC; F: F	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCM; MM: MMCM	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
P: CABLE LENGTH (IN)	N: N/A; 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: TOLERANCES ARE ANGLES

± 1/64 .xxx .005 ± 1°

TOLERANCE SMA PER ANSI Y14.5

REMOVE ALL BURRS

SMALLER INTERNAL DIMS. 000 TO .010

FILLET R .005 TO R .020

ORDER PRECISION PER MIL-S-8839

DIA'S ON A COMMON S. OF .005

MACHINED SURFACES

DO NOT SCALE DRAWING

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ANTCOM CORP. TORRANCE, CALIFORNIA

GPS / WIFI

BLADE ANTENNA

DATE: 3/24/13

SCALE: 1/1

SHEET 1 OF 1

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NMO Connector Option is Now Available for Some Antennas