



DATASHEET Part No. X9001091 Product: Wi-Fi Dual Band External antenna

Part No. X9001091-W3DSMW External Hinged Wi-Fi Dual Band Antenna

2.4 GHz, 5 GHz

Supports: Wi-Fi applications, Agriculture, Automotive, Bluetooth, ZigBee, WLAN, Smart Home, Healthcare, Digital Signage



External Hinged Wi-Fi Dual Band Antenna

2.4 GHz, 5 GHz

KEY BENEFITS

Quicker Time-to-Market

Standard part means fewer design changes with, simple implementation Easy Assembly using RP-SMA or SMA

Best in Class Performance

External antennas are designed to maintain high efficiency in a variety of device configurations

Great Flexibility

Standard connector to makes easy set-up

RoHS Compliant

Products are the latest RoHS version compliant.

APPLICATIONS

•	Embedded	•	Telematics
	design	•	Tracking
•	Cellular,	•	Healthcare
	Headsets,	•	M2M,
	Tablets		Industrial
•	Gateway,		devices
	Access	•	Smart Grid
	Point	•	OBD-II
•	Handheld	•	IoT

Ethertronics series of External antennas deliver on the key needs of device designers for higher functionality and performance in access points.

The antenna offers a high gain on both the 2.4 & 5 GHz bands, and can be mounted easily straight or at right angle to the device via an SMA.

Extensive RF Experience

Our external antennas are supported by documentation and, when needed, by the expertise of RF engineers who have integrated hundreds of antenna designs into wireless devices.

Global Operations & Design Support

Ethertronics' global operations encompass an integrated network of design centers that provide local customer support. Electrical Specifications

Typical Characteristics measured in Free Space tested and 90° bent position

Frequency (GHz)	2.400 – 2.485	5.150 – 5.850		
Return Loss	<-14 dB	<-11 dB		
Peak Gain	1.8 dBi	4.0 dBi		
Average Efficiency	75%	80%		
Polarization	Ver	tical		
Feed Point Impedance	50 ohm			

Mechanical Specifications & Ordering Part Number

Ordering Part Number	X9001091-W3DSMW		
Dimensions (mm)	84.00 ± 2.00 height 9.35 ± 0.10 diameter		
Connector Type	SMA Male (RP-SMA is available. Refer to appendix on last page)		
Weight (grams)	12		
Hinge	Foldable 90° at the hinge level		
Color	White (Black color is available. Refer to appendix on the last page)		
Operating Temperature (°C)	-40 to +120		
Radome Material	TPEE		

Proprietary

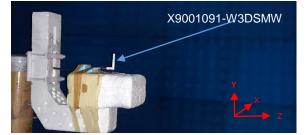


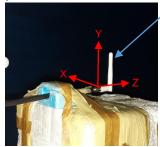
2.4 / 5 GHz External Wi-Fi antenna specifications

Ethertronics produces a wide variety of standard and custom antennas to meet user needs

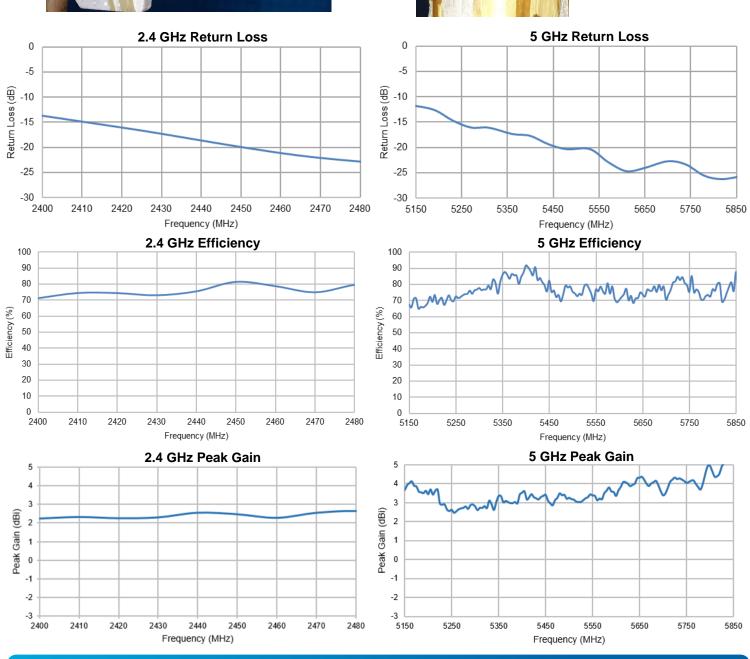
Return Loss, Efficiency, and Peak Gain Plots

Typical performance measured in free space, and in 90° bent position





X9001091-W3DSMW in 90° bent position



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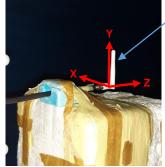
2.4 / 5 GHz External Wi-Fi antenna specifications

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Radiation Patterns Plots

Typical performance measured in free space, and in 90° bent position

Measured at 2.44 GHz, 5.55 GHz



X9001091-W3DSMW

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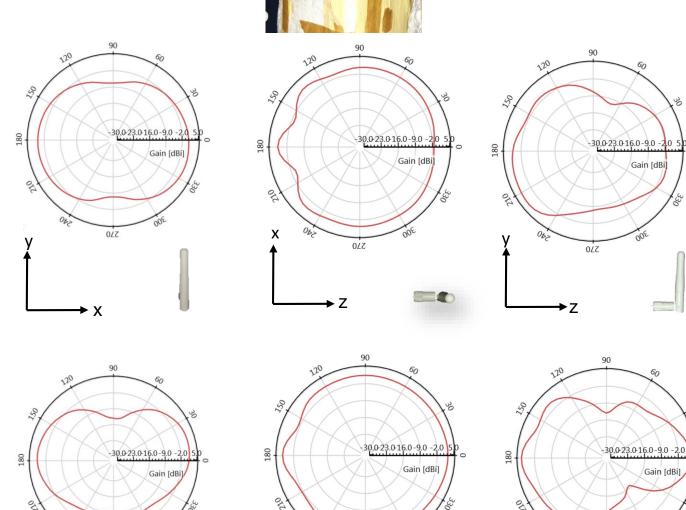
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Gain [dBi]

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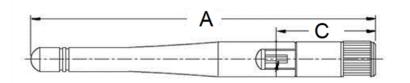
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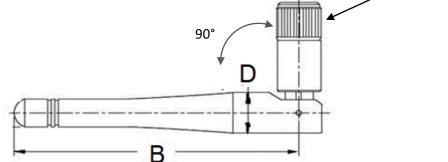
Mechanical Specifications

Typical antenna dimensions in mm

Part Number	A (mm)	B (mm)	C (mm)	D (mm)	Color	Connector
X9001091-W3DSMW	84.00 ± 2.00	58.00 ± 2.00	25.80 ± 2.00	9.35 ± 0.10	White	SMA Male
X9001091-W3DRMW	84.00 ± 2.00	58.00 ± 2.00	25.80 ± 2.00	9.35 ± 0.10	White	RP-SMA Male
X9001091-W3DSMB	84.00 ± 2.00	58.00 ± 2.00	25.80 ± 2.00	9.35 ± 0.10	Black	SMA Male
X9001091-W3DRMB	84.00 ± 2.00	58.00 ± 2.00	25.80 ± 2.00	9.35 ± 0.10	Black	RP-SMA Male



Connector



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera AVX: X9001091-W3DSMW X9001091-W3DSMB