



## Part No. X9000294-W3DRMB

## External Hinged Wi-Fi Dual Band Antenna

2.4 GHz. 5 GHz

Supports: Wi-Fi applications, Agriculture, Automotive, Bluetooth, ZigBee, WLAN, Smart Home, HealthCare, Gateways, Routers



## **External Wi-Fi Dual Band Antenna**

2.4 GHz, 5 GHz

#### **KEY BENEFITS**

#### **Quicker Time-to-Market**

Standard part means fewer design changes. Quickly 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

Healthcare

Industrial

devices

Smart Grid

OBD-II

IoT

M2M,

#### **RoHS Compliant**

Products are the latest RoHS version compliant

#### **APPLICATIONS**

- Embedded design
- Bluetooth
- Gateway,
- Access Point
- Handheld Telematics
- Tracking

X9000294 is a hinged dipole antenna that can be mounted easily with RP-SMA male connector. It is ideal for Wi-Fi applications, Bluetooth, ZigBee, and LAN applications and with the high gain performance, it ensures reliable communications in both 2.4 GHz and 5GHz bands.

## **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 in Free Space, tested in 90° bent position

Frequency (GHz)	2.400 – 2.485	5.150 – 5.850			
Return Loss	<-12 dB	<-9 dB			
Peak Gain	3.2 dBi	4.5 dBi			
Average Efficiency	75%	60%			
Polarization	Vertical				
Feed Point Impedance	50 ohm				

#### **Mechanical Specifications & Ordering Part Number**

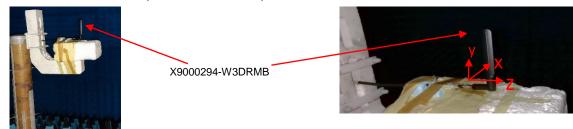
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Ordering Part Number	X9000294-W3DRMB				
Dimensions (mm)	157.50 ± 3.00 height 17.65 ± 0.20 width				
Connector Type	RP-SMA Male				
Weight (grams)	5				
Hinge	Foldable 90° at the hinge level				
Color	Black ( white is available upon request )				
Operating Temperature (°C)	-40 to +120				
Radome Material	TPEE				



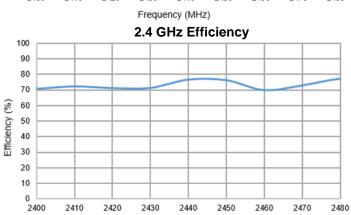
2.4 / 5 GHz External Hinged Wi-Fi antenna specifications Ethertronics produces a wide variety of standard and custom antennas to meet user needs

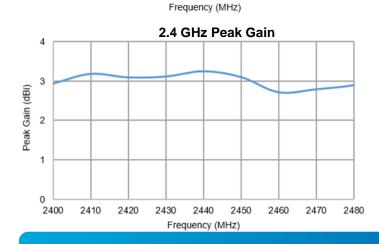
#### Return Loss, Efficiency, and Peak Gain Plots

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

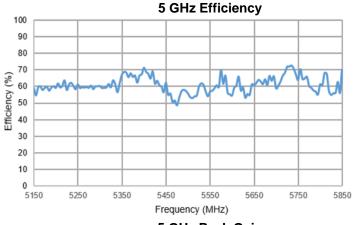












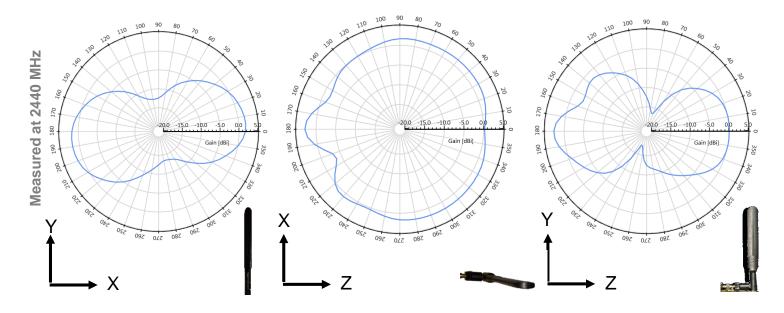


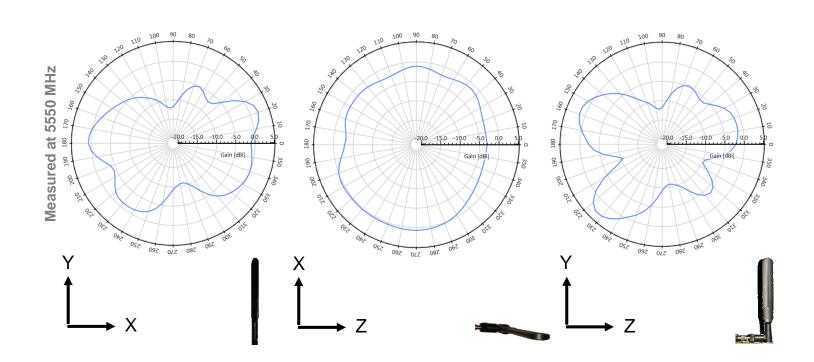


2.4 / 5 GHz External Hinged Wi-Fi antenna specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs

#### **Radiation Patterns Plots**

Typical performance, measured in free space, in 90° bent position Measured at 2.440 GHz, 5.550 GHz





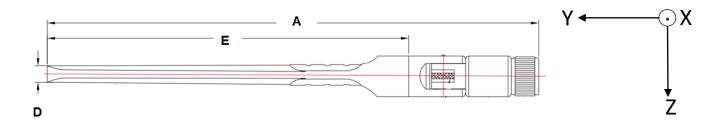


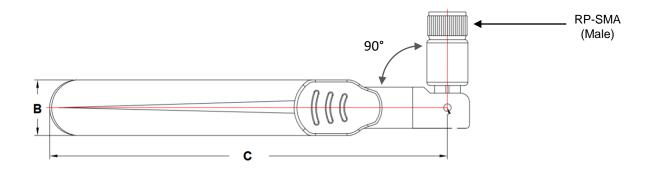
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## **Mechanical Specifications**

Typical antenna dimensions in mm

Part Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Connector
X9000294-W3DSMB	157.50 ±3.00	17.60 ± 0.20	127.00 ± 2.00	5.60 ± 0.10	116.00 ± 0.20	RP-SMA Male





# **Mouser Electronics**

**Authorized Distributor** 

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Kyocera AVX: X9000294-W3DRMB