



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

devices

OBD-II

IoT

Smart Grid

RoHS Compliant

Products are the latest RoHS version compliant

APPLICATIONS

- Embedded Healthcare design • M2M, Industrial
- 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

	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



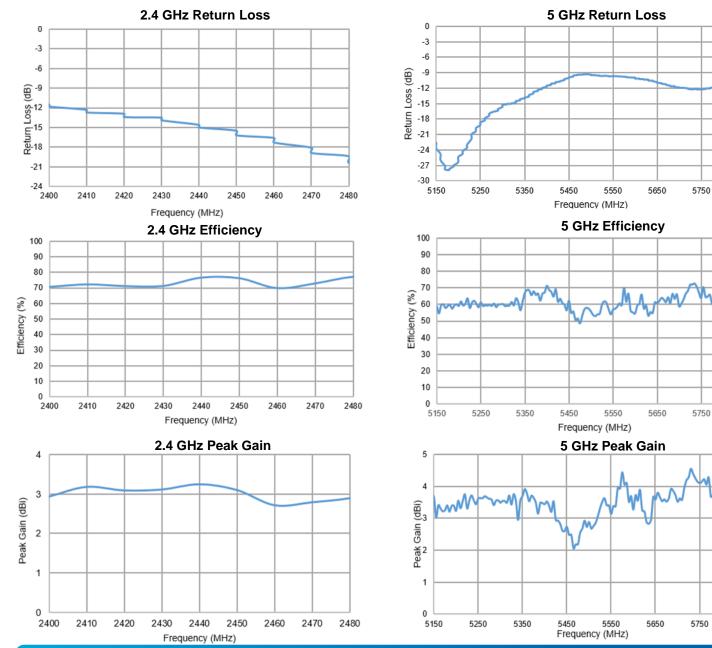
X9000294-W3DRMB



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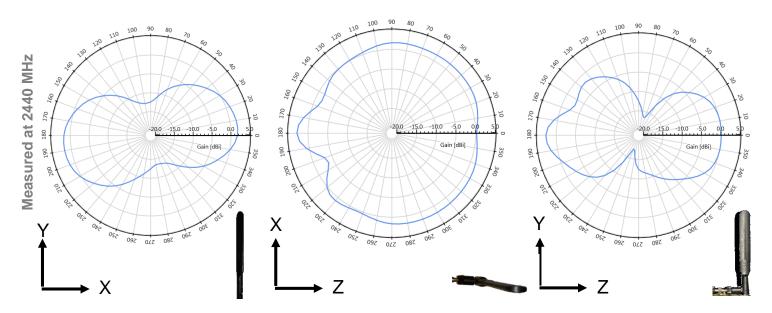
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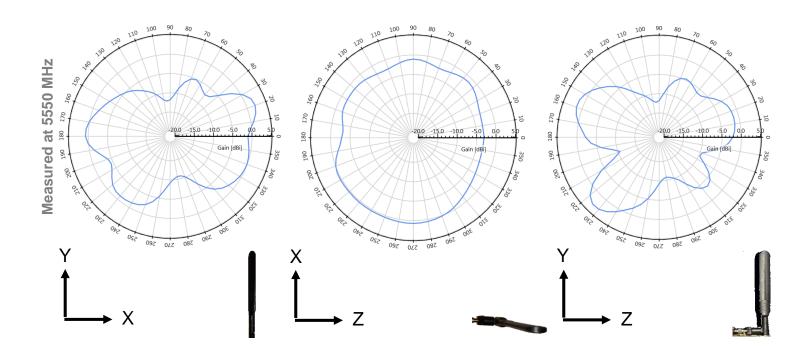


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Radiation Patterns Plots

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

