



Part No. WXP3015W08-U100D3B0A Embedded Wi-Fi Dual Band Antenna - Multiple Radiation Patterns 2.4 & 5 GHz

Supports: Access Points, Routers, Gateways, Wi-Fi enabled TV's and monitors



Embedded Wi-Fi Antenna AP, Routers, Gateways

2.4 / 5 GHz

KEY BENEFITS

Quicker Time-to-Market

Standard part means fewer design changes Simple implementation

Superior Network Coverage

Better network coverage means more reliable wireless connections.

Single form factor with Three Radiation Patterns

Single mechanical outline with different radiation patterns
Easy fine tune to maximize
MiMo performance
Maximize system throughput
Mitigate peak gain issues
RoHS Compliant

Products are the latest RoHS version compliant

APPLICATIONS

- · Access Points and Routers
- · Gateways
- Wi-Fi enabled TV's and monitors

Ethertronics WXP3015W08 series FR4 based antennas include an embedded Wi-Fi dipole design that delivers on the key needs of today's wireless product designers: miniaturized design and superior signal sensitivity.

This antenna is ideal to rotate the radiation patterns with a single mechanical outline, slightly to the left (WA), to the right (WB) and straight aligned with Z-axis (WC), which allows to maximize system throughput and migrate peak gain issues.

Excels in Real-Life Conditions

Meets the ever-growing demand for smaller, thinner product designs by eliminating whip and stub antennas.

Extensive RF Experience

Ethertronics 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 support an integrated network of design centers that can take projects from concept to production.

Electrical Specifications

Typical Characteristics (in reference device housing made in PC/ABS plastic and 100mm cable length)

Frequency (GHz)	2.4 – 2.48	5.15 – 5.85			
Return Loss*	< -8.4 dB	< 8.7 dB			
Average Efficiency*	65 %	61%			
Peak Gain*	< 3 dBi	< 6.7 dBi			
Feed Point Impedance	50 ohms unbalanced				

Mechanical Specifications & Ordering Part Number

*Among all variants

Part Number	WXP3015W08-U100D3B0A			
Size (mm)	30.00 ± 0.15 length 15.50 ± 0.15 width 0.80 ± 0.05 thickness			
*Connector	u.fl compatible			
*Cable length (mm)	100			
Weight (g)	N/A			
Adhesive	3M468MP			
Packing	Individual PE bags (default) or tray (per request)			

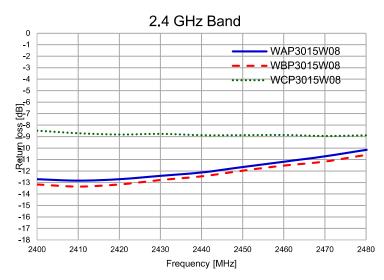
^{*}Additional variations available in different cable lengths, colors and connectors, refer to Appendix on page 4.

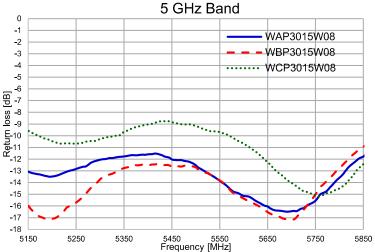


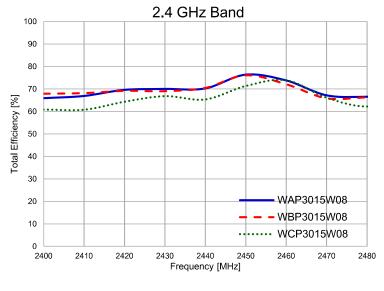
Wi-Fi 2.4 & 5 GHz embedded antenna specifications Ethertronics produces a wide variety of standard and custom antennas to meet user needs

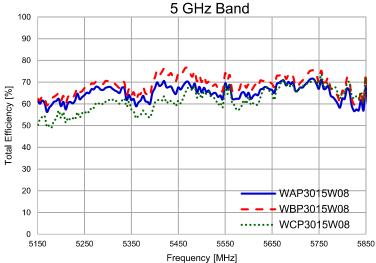
Return Loss and Efficiency Plots

Measured in reference device housing made in PC/ABS plastic and 100 mm cable length









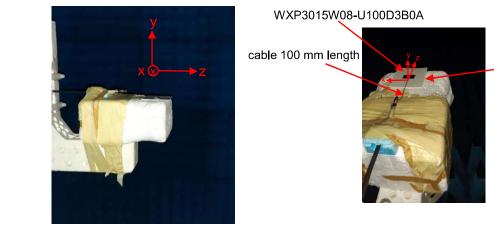
PC/ABS Plastic

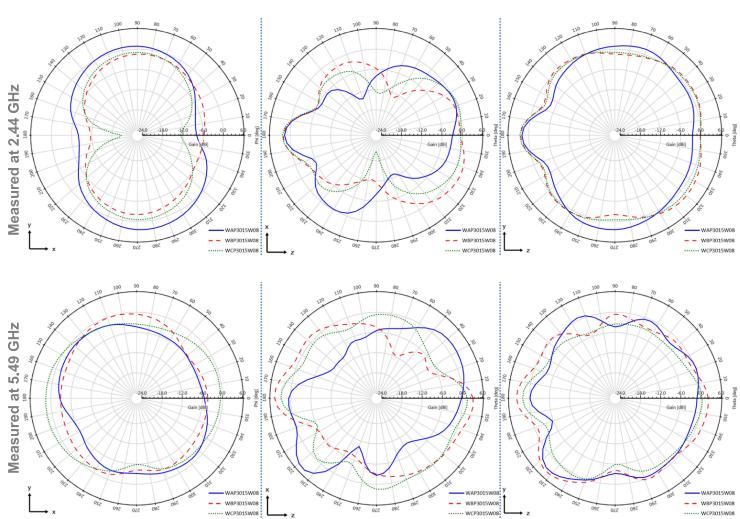


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Antenna Radiation Patterns plots

Typical Performances in reference device housing made in PC/ABS plastic and 100 mm cable length







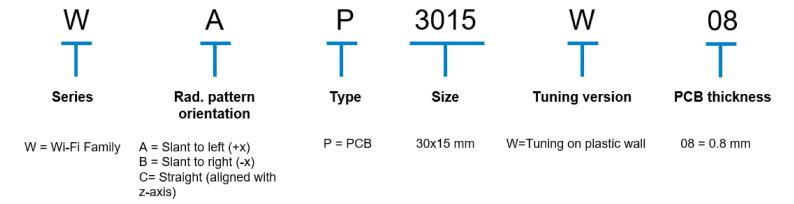
Generic Antenna Part Numbers

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Example of generic Wi-Fi PN: WAP3015W08-U100D3G0A

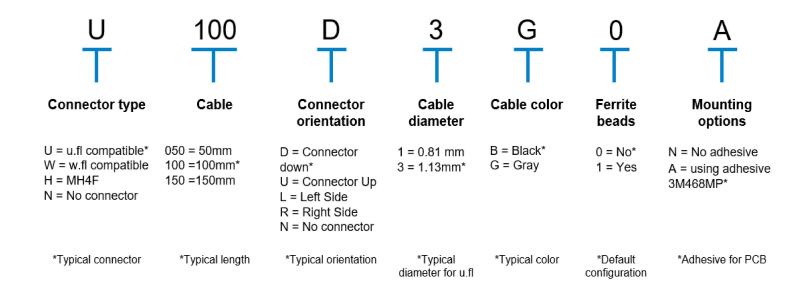
PN Nomenclature

PCB silk screen number



PN Nomenclature

Second part of the PN





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Typical Ordering Part Numbers

Part Number	Туре	Tuning version	Connector	Cable length (mm)	Mounting Options
WAP3015W08-U050D3B0A	РСВ	PCB Tuning on Plastic Wall	u.fl compatible	50	Using Adhesive 3M468MP
WAP3015W08-U100D3B0A				100	
WAP3015W08-U150D3B0A				150	
WAP3015W08-H100D3B0A			MHF4	100	
WBP3015W08-U050D3B0A	РСВ	PCB Tuning on Plastic Wall	u.fl compatible	50	Using Adhesive 3M468MP
WBP3015W08-U100D3B0A				100	
WBP3015W08-U150D3B0A				150	
WBP3015W08-H100D3B0A			MHF4	100	
WCP3015W08-U050D3B0A	D OD	Tuning on Plastic Wall	u.fl compatible	50	Using Adhesive 3M468MP
WCP3015W08-U100D3B0A				100	
WCP3015W08-U150D3B0A	PCB			150	
WCP3015W08-H100D3B0A			MHF4	100	

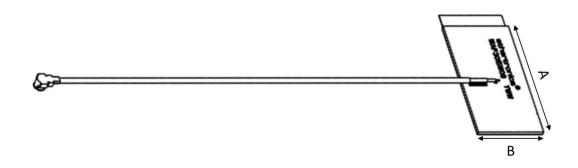


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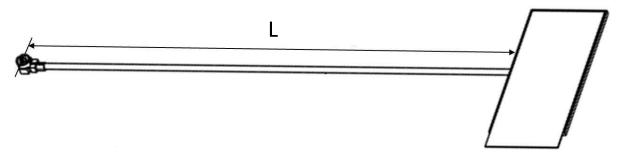
Mechanical Dimensions

Typical dimensions in mm

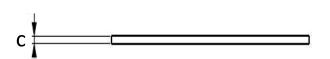
Part Number	A (mm)	B (mm)	C (mm)	L (mm)	Connector
WXP3015W08-U100D3B0A	30.00 ± 0.15	15.50 ± 0.15	0.80 ± 0.05	100	u.fl compatible



Top View



Bottom View



^{*}All dimensions provided in this document are for informational purposes only