



Part No.WXP3015W08-U100D3BOA Embedded Wi-Fi Dual Band Antenna -Multiple Radiation Patterns

2.4&5GHz

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



Embedded Wi-Fi Antenna AP,Routers,Gateways

Ant Type: FPC / 2.4/5GHz

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-Fienabled 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 PCIABS 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*	2.90 dBi	5.90 dBi			
Feed Point 1mpedance	50 ohms unbalanced				

*Among all variants

Mechanical Specifications &Ordering Part Number

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)				

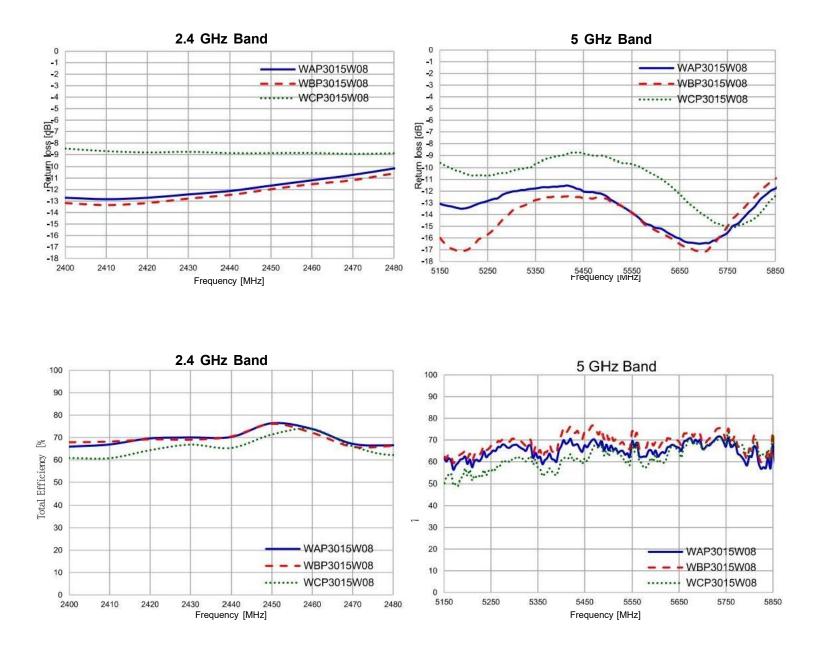
*Additional variations available in different cable lengths, colors and connectors, refer to Appendix on page 4.



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





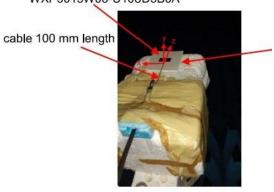
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Antenna Radiation Patterns plots

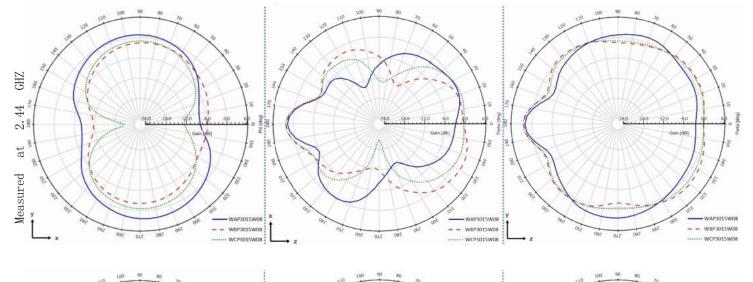
Typical Performances in reference device housing made in PC/ABS plastic and 100 mm cable length

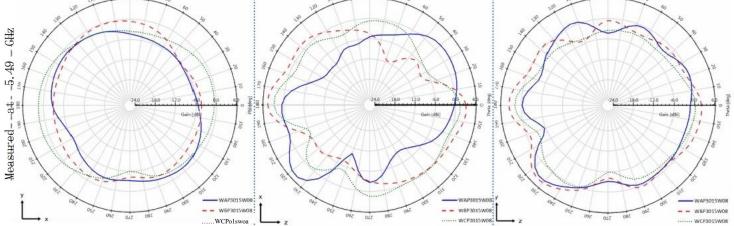


WXP3015W08-U100D3B0A



PC/ABS Plastic





tel+(1)858.550.3820|fax+(1)858.550.3821 email:eth.info@avx.com 5501 Oberlin Drive,Suite 100 San Diego,CA 92121-USA



Generic Antenna Part Numbers

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

Example of generic Wi-Fi PN:WAP3015W08-U100D3G0A

PNNomenclaturePCBsilkscreennumber

W	А	Р	3015	W	08
Т	Т	Т		Т	Т
Series	Rad.pattern orientation	Туре	Size	Tuning version	PCB thickness
W=Wi-Fi Family	A=Slant to left(+x) B=Slant to right (-x) C=Straight(aligned with Z-axis)	P=PCB	30x15 mm	W=Tuning on plastic wall	08=0.8 mm

PN Nomenclature

Second part of the PN

U	100	D	3	G	0	А
		Т		Т	Т	Т
Connector type	Cable	Connector orientation	Cable diameter	Cable color	Ferrite beads	Mounting options
U=u.fl compatible* W=w.fl compatible H=MH4F N=No connector	050=50mm 100=100mm* 150=150mm	D=Connector down* U=Connector Up L=Left Side R=Right Side N=No connector	1=0.81 mm 3=1.13mm*	B=Black* G=Gray	0=No* 1=Yes	N=No adhesive A=using adhesive 3M468MP*
*Typical connector	*Typical length	*Typical orientation	*Typical diameter for u.fl	*Typical color	*Default configuration	*Adhesive for PCB



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Typical Ordering Part Numbers

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

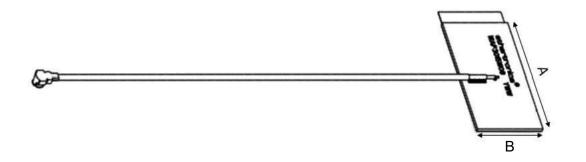


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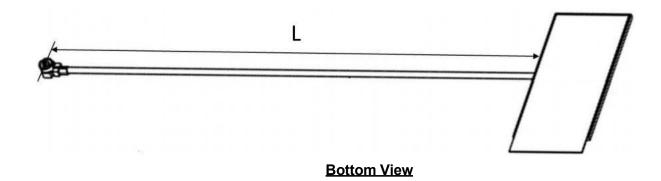
Mechanical Dimensions

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



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

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