

# Antenna Specification Matrix

Zyxel dedicates itself to antenna design optimization for deliver fast and reliable WiFi service. As antennas are the major component of Wireless LAN access points, it's imperative to pay attention to patterns optimal for different deployment scenarios. Most Zyxel Wireless LAN APs are designed for ceiling-mount typically at heights of 3 to 5 meters; if this is not allowed due to environment

restrictions, wall-mount installation is recommended for better performance. Please refer to the tables below for patterns of internal and bundled detachable antennas of Zyxel access points as a tool for planning the best wireless LAN deployments – especially when you have to cope with strong interference or deploy in high-density venues.

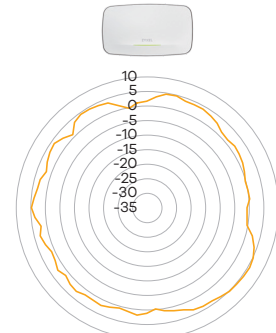
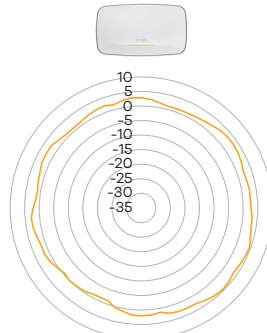
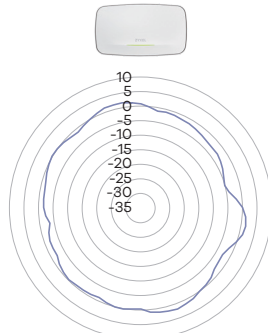
**Model** **WBE660S**

Product photo

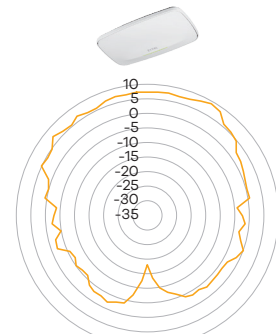
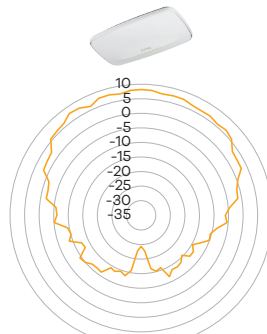
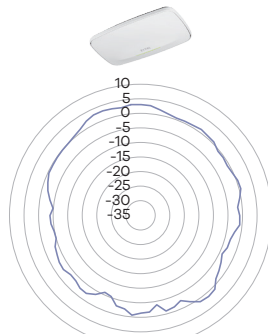


<b>Space</b>	Embedded	Embedded	Embedded
<b>Frequency band (MHz)</b>	2412 - 2472	5150 - 5850	5925 - 7125
<b>Gain</b>	3 dBi	5 dBi	5 dBi

**XZ-Plane  
E-Plane  
(Side view)**



**XY-Plane  
H-Plane  
(Top view)**

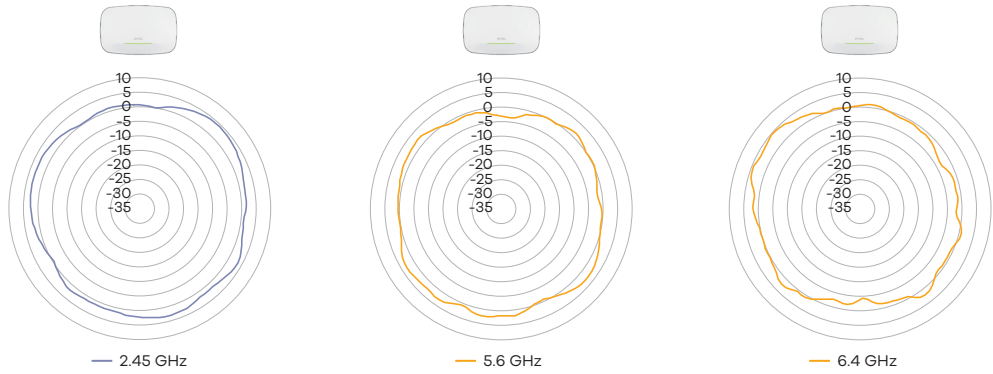


Product photo

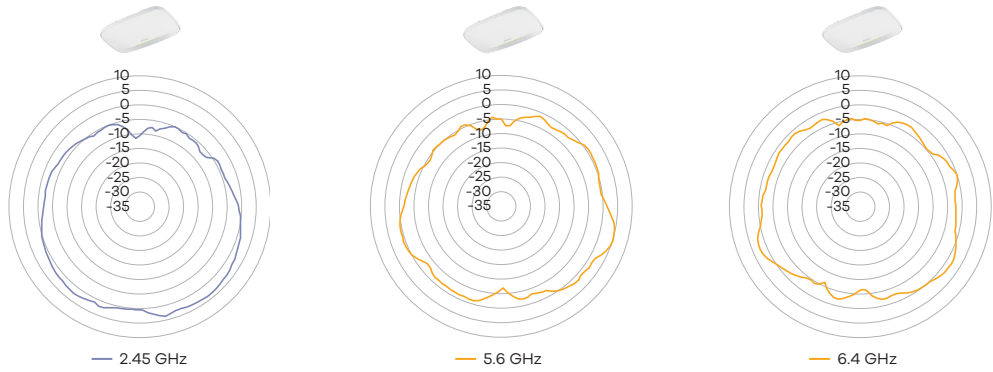


Space	Embedded	Embedded	Embedded
Frequency band (MHz)	2412 - 2472	5150 - 5850	5925 - 7125
Gain	3 dBi	4 dBi	4 dBi

XZ-Plane  
E-Plane  
(Side view)



XY-Plane  
H-Plane  
(Top view)

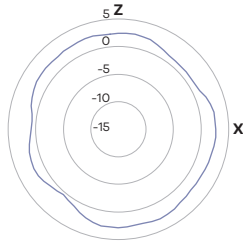


**Product photo**

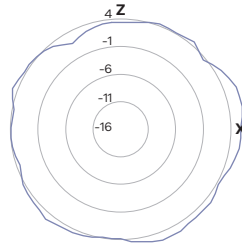


<b>Space</b>	Embedded	Embedded	Embedded	Embedded
<b>Frequency band (MHz)</b>	2412 - 2472	5150 - 5850	2412 - 2472	5150 - 5850
<b>Gain</b>	3 dBi	5.8 dBi	3 dBi	4.5 dBi

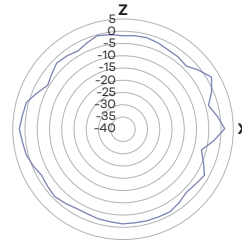
**XZ-Plane  
E-Plane  
(Side view)**



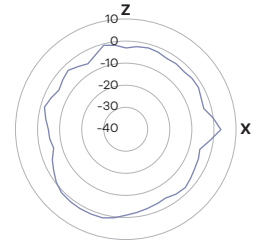
Smart Antenna — 2.4 GHz



Smart Antenna — 5.1 GHz

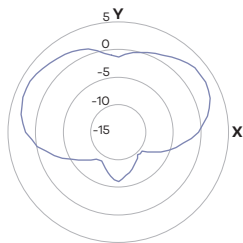


Smart Antenna — 2.4 GHz

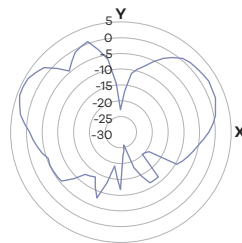


Smart Antenna — 5.15 GHz

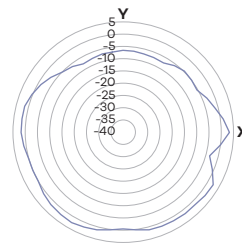
**XY-Plane  
H-Plane  
(Top view)**



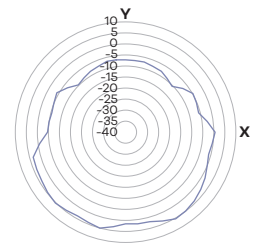
Smart Antenna — 2.4 GHz



Smart Antenna — 5.1 GHz



Smart Antenna — 2.4 GHz



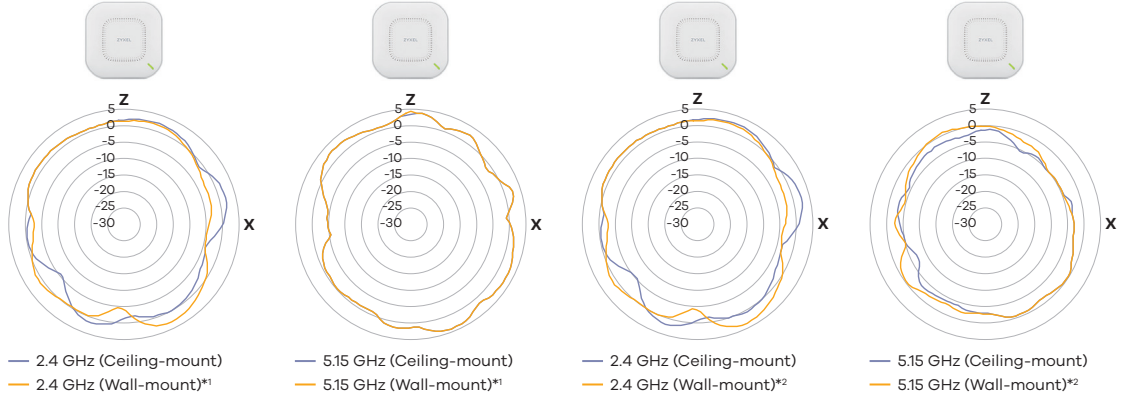
Smart Antenna — 5.15 GHz

**Product photo**

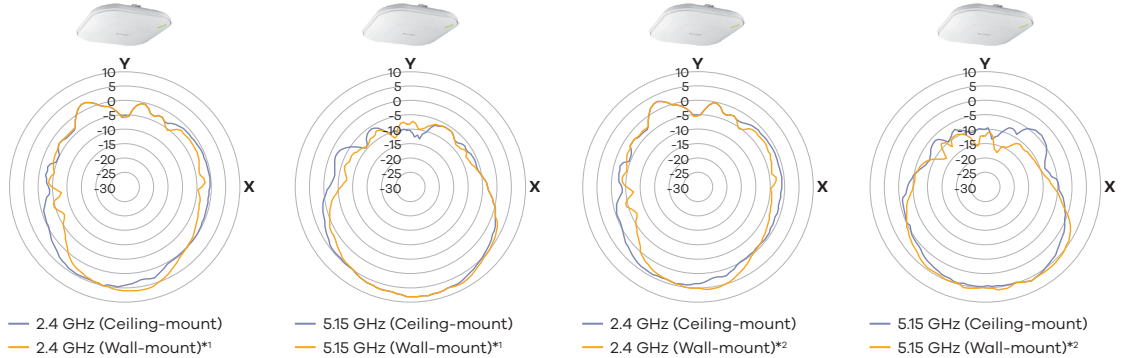


Space	Embedded	Embedded	Embedded	Embedded
Frequency band (MHz)	2412 - 2472	5150 - 5850	2412 - 2472	5150 - 5850
Gain	5 dBi	6 dBi	5 dBi	6 dBi

**XZ-Plane  
E-Plane  
(Side view)**



**XY-Plane  
H-Plane  
(Top view)**



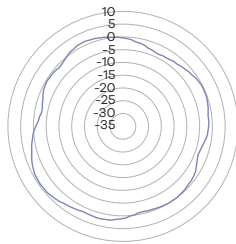
\*1: Wall-mount patterns for WAX610D only.  
\*2: Wall-mount patterns for WAX510D only.

**Product photo**

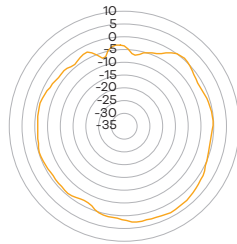


<b>Space</b>	Embedded	Embedded	Embedded	Embedded
<b>Frequency band (MHz)</b>	2412 - 2472	5150 - 5850	2412 - 2472	5150 - 5850
<b>Gain</b>	3 dBi	4 dBi	3 dBi	4 dBi

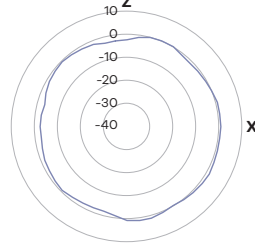
**XZ-Plane  
E-Plane  
(Side view)**



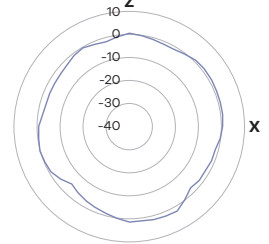
— 2.45 GHz



— 5.6 GHz

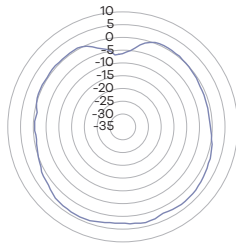


— 2.4 GHz (Ceiling-mount)

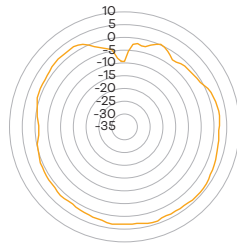


— 5.15 GHz (Ceiling-mount)

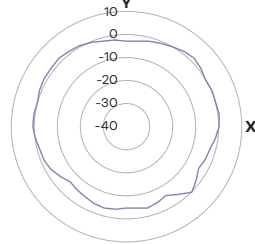
**XY-Plane  
H-Plane  
(Top view)**



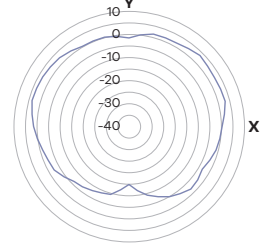
— 2.45 GHz



— 5.6 GHz



— 2.4 GHz (Ceiling-mount)



— 5.15 GHz (Ceiling-mount)

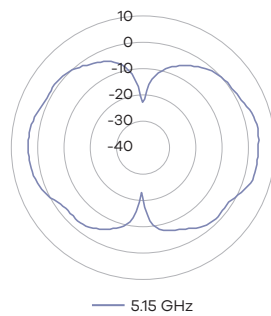
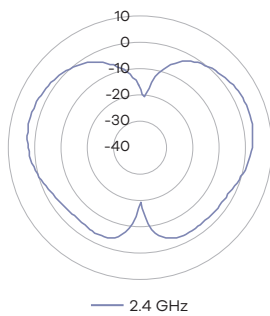
<b>Model</b>	<b>NWA55AXE</b>	
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**Product photo**

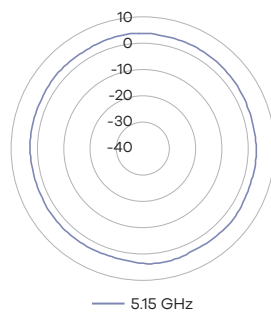
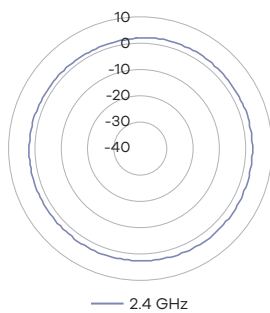


<b>Space</b>	External antenna	External antenna
<b>Frequency band (MHz)</b>	2400 - 2500	5150 - 5850
<b>Gain</b>	3.74 dBi	4.58 dBi
<b>VSWR</b>	3.0:1 Max.	3.0:1 Max.
<b>Polarization</b>	Linear	Linear

**XZ-Plane  
E-Plane  
(Side view)**



**XY-Plane  
H-Plane  
(Top view)**



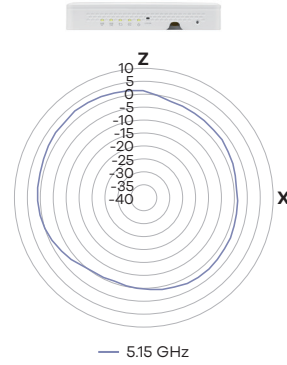
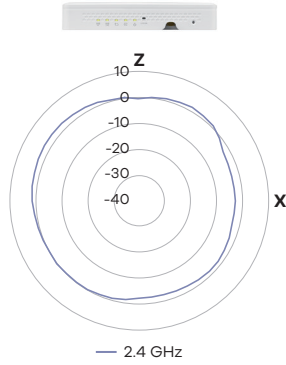
<b>HPBW/Horizontal</b>	● 360°	● 360°
<b>HPBW/Vertical</b>	▶ 75°	▶ 90°
<b>Front to back ratio</b>	-	-
<b>Impedance</b>	50 Ω	50 Ω
<b>Connector</b>	RP-SMA plug	RP-SMA plug
<b>Survival wind speed</b>	-	-
<b>Temperature</b>	-20°C to 65°C/-4°F to 149°F	-20°C to 65°C/-4°F to 149°F
<b>Humidity</b>	10% to 95%	10% to 95%
<b>Radome color</b>	White	White
<b>Radome material</b>	TPEE	TPEE
<b>Dimensions (WxDxH)(mm/in.)</b>	162.8 x 13 x 13/6.41 x 0.51 x 0.51	162.8 x 13 x 13/6.41 x 0.51 x 0.51
<b>Weight (g/lb.)</b>	15/0.03	15/0.03

**Product photo**

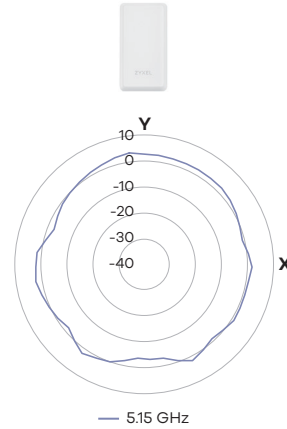
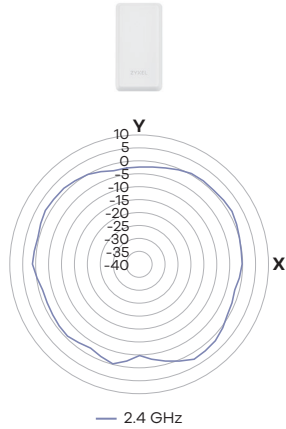


<b>Space</b>	Embedded	Embedded
<b>Frequency band (MHz)</b>	2412 - 2472	5150 - 5850
<b>Gain</b>	3 dBi	4 dBi

**XZ-Plane  
E-Plane  
(Side view)**



**XY-Plane  
H-Plane  
(Top view)**



For more product information, visit us on the web at [www.zyxel.com](http://www.zyxel.com)

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