


**Device**
**FortiAP 221E**
**Meraki MR33**
**Meraki MR42**
**Specifications & Features**

Device	FortiAP 221E	Meraki MR33	Meraki MR42
<b>Usage</b>	Medium density indoor environments	Medium density indoor environments	High density indoor environments
<b>Radios</b>	2x2:2 MIMO Wave 2	2x2:2 MIMO Wave 2	3x3:3 MU - MIMO Wave 2
<b>Bands</b>	2.4GHz, 5GHz	2.4GHz, 5GHz	2.4GHz, 5GHz
<b>Radio Frequencies</b>	Radio 1:2.4 GHz Radio 2:5 GHz	Radio 1:2.4 GHz Radio 2:5 GHz Radio 3:2.4 GHz & 5 GHz with WIDS \ WIPS, spectrum analysis, and location analytics	Radio 1:2.4 GHz Radio 2:5 GHz Radio 3:2.4 GHz & 5 GHz with WIDS/WIPS, spectrum analysis, and location analytics Radio 4:2.4 GHz Bluetooth Low Energy (BLE) radio with beacon and BLE scanning support
<b>Data Rate</b>	Up to 1.2 Gbps	Up to 1.3 Gbps	Up to 1.9 Gbps
<b>Ethernet Ports</b>	1 X GE RJ45	1 X GE RJ45	1 X GE RJ45
<b>Power</b>	IEEE 802.3at (12.9W max)	IEEE 802.3at (11W max)	IEEE 802.3at (20W max)
<b>Management</b>	Controller Managed	Cloud Managed	Cloud Managed
<b>Authentication</b>	WPA, WPA2-PSK, WEP, simple captive portal	WPA, WPA2-Enterprise with 802.1x, WEP, customizable captive portal: social media, external URL, LDAP, billing integration	WPA, WPA2-Enterprise with 802.1x, WEP, customizable captive portal: social media, external URL, LDAP, billing integration
<b>Security Radio</b>	Integrated Radio	Dedicated Radio	Dedicated Radio
<b>Firewall</b>	✗	✓	✓
<b>Guest Segmentation</b>	✓	✓	✓
<b>Location Analytics</b>	✗	✓	✓
<b>RF Optimization</b>	✗	✓	✓
<b>Bluetooth</b>	✗	✗	✓
<b>Traffic Shaping</b>	✗	✓	✓
<b>Air Marshall</b>	✗	✓	✓
<b>Mesh</b>	✓	✓	✓
<b>Self Config</b>	✗	✓	✓

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