

FortiAP



| Hardware | FortiAP C220C | FortiAP C225C | FortiAP S321CR | FortiAP S322C | FortiAP S322CR | FortiAP S323CR | FortiAP S421E | FortiAP S422E | FortiAP S423E |
|-----------------------------------|--|--|--|--|--|--|--|--|--|
| Suggested Use Case | Entry Level cloud managed AP with basic connectivity features | Entry Level cloud managed AP with basic connectivity features | High density, high performance 802.11ac indoor | High density, high performance 802.11ac outdoor | High density, high performance 802.11ac indoor | High density, high performance 802.11ac indoor | High density, high performance 802.11ac outdoor | High density, high performance 802.11ac outdoor | High density, high performance 802.11ac outdoor |
| Form Factor | Wall or ceiling wall mountable | Outdoor | Wall or ceiling wall mountable |
| Dimension | 8.5 x 8.5 x 1.38 in | 8.5 x 8.5 x 1.38 in | D: 7.69 in, H:1.49 in | 11.6 x 8.9 x 5.06 in | 8.6 x 9.8 x 2 in | D: 7.69 in, H:1.49 in | 215.6mmx215.6mmx60mm | 210mmx210mmx51mm | 215.6mmx215.6mmx60mm |
| Ethernet Interfaces | 1x GE RJ45 | 1x GE RJ45 | 2x GE RJ45 | 1x GE RJ45 | 2x GE RJ45 (redundant PoE) | 2x GE RJ45 | 2x GE RJ45 | 2x GE RJ45 | 2x GE RJ45 |
| PoE | 802.3af | 802.3af | IEEE 802.3at (30W) |
| Serial Console Port | 1 x RJ45 |
| IEEE Specifications | 802.11 a/b/g/n/ac | 802.11 a/b/g/n/ac | 802.11a/b/e/g/h/i/n/ac |
| Number of Radios | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number of Antennas | 4 Internal | 4 RP-SMA external | 6 internal | 6 N-type external | 6 N-type external | 6 RP-SMA external | 8 internal | 8 external | 8 external |
| Peak Antenna Gain | 2.4GHz-3.5 dBi/5GHz-6dBi | 2.4GHz-3.5 dBi/5GHz-6dBi | 2.4GHz-4 dBi/5GHz-5dBi | 2.4GHz-5dBi/ 5GHz-7dBi | 2.4GHz-5dBi/ 5GHz-7dBi | 2.4GHz-4dBi/5dBi-5GHz | 2.4GHz-5dBi/5GHz-7dBi | 2.4GHz-4dBi/5GHz-5dBi | 2.4GHz-4dBi/5GHz-5dBi |
| Simultaneous SSIDs | 16 | 16 | 16 (14 client,2 monitor) |
| Frequency of Radio 1 | 2.4 GHz (up to 300 Mbps) | 2.4 GHz (up to 300 Mbps) | 2.4 GHz b/g/n (450 Mbps) | 2.4 GHz b/g/n (600 Mbps) | 2.4 GHz b/g/n (600 Mbps) | 2.4 GHz b/g/n (600 Mbps) |
| Frequency of Radio 2 | 5 GHz (up to 867 Mbps) | 5 GHz (up to 867 Mbps) | 5 GHz a/n/ac (1300 Mbps) | 5 GHz a/n/ac (1300 Mbps) | 5 GHz a/n/ac (1300 Mbps) | 5 GHz a/n/ac (1300 Mbps) | 5 GHz a/n/ac (1733 Mbps) | 5 GHz a/n/ac (1733 Mbps) | 5 GHz a/n/ac (1733 Mbps) |
| EAP Type(s) | EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST |
| User/Device Authentication | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist | WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist |
| Maximum Tx Power | 20 dBm(100mW)* | 20 dBm(200mW)* | 20 dBm (100 mW) | 23 dBm (100 mW) in 2.4GHz band and 22dBm in 5.0GHz band | 23 dBm (100 mW) in 2.4GHz band and 22dBm in 5.0GHz band | 23 dBm (100 mW) in 2.4GHz band and 22dBm in 5.0GHz band |
| Included Accessories | Ceiling, T-Rail and wall mount kit |
| FortiPresence Capable | No | No | Yes |
| Wireless Mesh Capable | No | No | Yes |
| Certifications | | | | | | | | | |
| Wi-Fi Alliance Certified | No |
| Warranty | | | | | | | | | |
| Limited Lifetime Warranty | Yes |

Controllers



| | FortiWLC 50D | FortiWLC 200D | FortiWLC 500D |
|--|--|--|--|
| Application | Small enterprise, remote offices | Mid enterprise | Large enterprise |
| Hardware | | | |
| 10/100/1000 Interfaces (Copper, RJ-45) | 4 | 4 | 4 |
| GE SFP Port | — | — | 4 |
| 10 GE SFP+ Port | — | — | 2 |
| Console Port (RJ45, serial) | 1 | 1 | 1 |
| Internal Storage | 60 GB SSD | 120 GB SSD | 2x 240 GB SSD |
| Capacity | | | |
| Maximum Access Points | 50 | 200 | 500 |
| Maximum Clients | 1,250 | 2,500 | 6,250 |
| Security | | | |
| Access Control | WEP, WPA-PSK, WPA-TKIP, WPA2-AES, 802.11i, 802.1X (EAP-TLS, EAP-TTLS, PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-AKA, and EAP-MD5) 802.1X and captive portal authentication against local database on the controller, RADIUS, and Active Directory RADIUS-assisted per-user and per-ESSID access control via MAC filtering | | |
| Policy | Per-user firewall with fine-grained policy management: admission control, packet prioritization, QoS flows, packet drop policy, bandwidth scaling, filter ID, network protocol, and source port filtering. System-configured or per-user, RADIUS-configured firewall policies | | |
| Management & Networking | | | |
| Zero Configuration | Access points automatically discover controllers and download configuration settings for zero-touch, plug-and-play deployment | | |
| System Management | Upgrades and management using System Director/Network Manager, support for SNMP, centralized WLAN security policies with multiple ESS profiles, VLAN-specific administrative/security policies | | |
| Intelligent RF Management | | | |
| VLAN Support | IEEE 802.1Q VLAN tagging, GRE Tunneling | | |
| QoS | WMM support, dynamic WMM rate adaptation, configurable QoS rules per user and application | | |
| Physical | | | |
| Mounting | rack mount (mounting kit required; included) | rack mount (mounting kit required; included) | rack mount (mounting kit required; included) |
| Height x Width x Length (inches) | 17.32 x 1.73 x 8.62 | 17.01 x 1.73 x 9.8 | 17.24 x 1.73 x 16.18 |
| Height x Width x Length (mm) | 440 x 44 x 219 | 432 x 44 x 249 | 438 x 44 x 411 |
| Weight | 6.39 lbs (2.9 kg) | 12.79 lbs (5.8 kg) | 16.98 lbs (7.7 kg) |
| Form Factor | 1 RU | 1 RU | 1 RU |
| Environment & Power | | | |
| Power Source | 100–240V AC, 60–50 Hz, 65 W openframe single PSU | 100–240V AC, 50–60Hz, 250 W single PSU | 100–240V AC, 60–50 Hz, 300 W Redundant PSU |
| Power Consumption (Average / Maximum) | 31 W / 24 W | 105 W / 76 W | 197 W / 141 W |
| Current (Maximum) | 100V/1.5A, 240V/1.5A | 100V/4A, 240V/2A | 100V/5A, 240V/3A |
| Heat Dissipation | 106 BTU/h | 358 BTU/h | 672 BTU/h |
| Operating Temperature | 32–104°F (0–40°C) | 32–104°F (0–40°C) | 32–104°F (0–40°C) |
| Storage Temperature | -13–158°F (-25–70°C) | -13–158°F (-25–70°C) | -13–158°F (-25–70°C) |
| Humidity | 5–95% (non-condensing) | 5–95% (non-condensing) | 5–95% (non-condensing) |
| Compliance | | | |
| Regulatory Approval | FCC Part 15B Class A, UL 60950-1, CSA C22.2 No. 60950-1-07, EN 60950-1, IEC 60950-1, ICES-003 Class B, EN55022 Class B, EN55024, VCCI Class B, RCM, BSMI | | |
| Certification | RoHS, REACH, WEEE | | |

Virtual Appliance



| | FortiWLM 100D | FortiWLM 1000D |
|---|--|--|
| Target Deployment | Small enterprises | Medium to large enterprises |
| Interfaces | | |
| GE RJ45 Port | 4 | 4 |
| SFP Port | — | 4 |
| SFP+ 10G Port | — | 2 |
| USB (Type-A) | 1 | 2 |
| Serial Console (RJ45) | 1 | 1 |
| Hard Disk | 1x 1 TB | 2x 1 TB |
| Capacity | | |
| Maximum Number of FortiWC Controllers Supported | 10 | 250 |
| Maximum Number of FortiAP-N Access Points Supported | 500 | 12,500 |
| Maximum Number of Stations Supported | 1000 | 50,000 |
| Physical | | |
| Mounting | 1U rack mount | 1U rack mount |
| Height x Width x Length (inches) | 17.32 x 1.73 x 8.62 | 17.24 x 1.73 x 16.18 |
| Height x Width x Length (mm) | 440 x 44 x 219 | 438 x 44 x 411 |
| Weight | 7.72 lbs (3.5 kg) | 19.62 lbs (8.9 kg) |
| Form Factor | 1 RU | 1 RU |
| Environment & Power | | |
| Power Source | 100–240V AC, 60–50 Hz, 65 W openframe single PSU | 100–240V AC, 60–50 Hz, 300 W Redundant PSU |
| Power Consumption (Average / Maximum) | 36 W / 28 W | 192 W / 137 W |
| Current (Maximum) | 100V/1.5A, 240V/1.5A | 100V/5A, 240V/3A |
| Heat Dissipation | 123 BTU/h | 655 BTU/h |
| Operating Temperature | 32–104°F (0–40°C) | 32–104°F (0–40°C) |
| Storage Temperature | -13–158°F (-25–70°C) | -13–158°F (-25–70°C) |
| Humidity | 5–95% non-condensing | 5–95% non-condensing |
| Compliance | | |
| Regulatory Approval | FCC part 15B Class B – USA UL 60950-1 – USA CSA C22.2 No. 60950-1-07 – Canada EN 60950-1 – EU IEC 60950-1 – International ICES-003 Class B – Canada EN55022 Class B – EU EN55024 – EU VCCI Class B – Japan | FCC part 15B Class A – USA UL 60950-1 – USA CSA C22.2 No. 60950-1-07 – Canada EN 60950-1 – EU IEC 60950-1 – International ICES-003 Class A – Canada EN55022 Class A – EU EN55024 – EU VCCI Class A – Japan |
| Certification | RoHS, REACH, WEEE | RoHS, REACH, WEEE |
| Warranty | | |
| Limited Lifetime Warranty | One year | One year |