FortiWLC™
Wireless Controllers

FortiWLC Wireless Controllers

FWC-50D, 200D, 500D, 1000D and 3000D

End-to-end control over the wireless LAN for your organization

The FortiWLC controller series optimizes traffic across our infrastructure wireless access points and client devices to support high density, high performance and predictability while addressing mission-critical enterprise demands for wireless connectivity. Each FortiWLC controller supports the performance requirements of the latest 802.11ac Wave II standard by providing double the performance of our existing Infrastructure wireless controllers. These high performance controllers also include support for both multi-channel and Virtual Cell/Single Channel technologies It works with relevant Fortinet's infrastructure access points to deliver data, voice, and video applications for small to large enterprises.

Powered by Fortinet's FWLC operating system, the FortiWLC creates a unified wireless LAN environment designed to deliver seamless mobility and superior reliability. FWLC optimizes client distribution and channel utilization in both single- and multi-channel deployments, maximizing efficiency to make the most of available wireless spectrum. Radio frequency virtualization simplifies deployment and allows easy capacity expansion as your needs evolve.

The controller manages authentication and encryption of our enterprise class infrastructure access points. You can easily extend the FortiWLC capabilities with included features for policy enforcement and wireless intrusion prevention. As a Fortinet wireless controller, it integrates with the FortiWLM network management suite, which combines with FWLC to bring application visibility, intelligent management and resilient wireless services to your network. It also integrates with Fortinet Connect as part of a complete BYOD and guest access solution.

Features

- Powered by FWLC OS, and supports 802.11ac Wave II access points
- Radio frequency virtualization supported by patented Virtual Cell technology
- Infrastructure-controlled, zero-loss handoffs and traffic load balancing
- Multilayered wireless LAN security: 802.1X authentication, encryption, firewall, and optional wireless IPS/IDS
- Seamless interoperability with multi-vendor network infrastructure

Benefits

- Delivers highly predictable, resilient wireless services in both single- and multi-channel deployments
- Simplifies deployment and capacity expansion for your wireless network
- Offers seamless wireless mobility with superior roaming reliability
- Protects sensitive data and aids in compliance
- Supports existing technology investment

FortiCare Worldwide 24x7 Support
support.fortinet.com

FortiGuard Security Services
www.fortiguard.com

SPECIFICATIONS

	FWC-50D	FWC-200D	FWC-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) 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	Coordination of access points with load balancing for predictable performance		
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)	1.73 x 17.32 x 8.62	1.73 x 17.01 x 13.76	1.73 x 17.24 x 16.18
Height x Width x Length (mm)	44 x 440 x 219	44 x 432 x 349.6	44 x 438 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, 50–60 Hz, 65 W openframe single PSU	100–240V AC, 50–60 Hz, 250 W single PSU	100–240V AC, 50–60 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		

FortiWLC 50D

FortiWLC 200D

FortiWLC 500D

SPECIFICATIONS

	FWC-1000D	FWC-3000D
Application	Large enterprise	Large enterprise
Hardware		
10/100/1000 Interfaces (Copper, RJ-45)	2	2
GE SFP Port	—	—
10 GE SFP+ Port	4	8
Console Port (RJ45, serial)	1	1
Internal Storage	2x 480 GB SSD	2x 480 GB SSD
Capacity		
Maximum Access Points	1,000	3,000
Maximum Clients	10,000	30,000
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) 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	Coordination of access points with load balancing for predictable performance	
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)
Height x Width x Length (inches)	3.46 x 17.24 x 22.56	3.46 x 17.24 x 22.56
Height x Width x Length (mm)	88 x 438 x 573	88 x 438 x 573
Weight	36.16 lbs (16.4 kg)	36.16 lbs (16.4 kg)
Form Factor	2 RU	2 RU
Environment & Power		
Power Source	100–240V AC, 50–60 Hz, 550W Redundant PSU	100–240V AC, 50–60 Hz, 550 W Redundant PSU
Power Consumption (Average / Maximum)	251 W / 343 W	403 W / 526 W
Current (Maximum)	100V/6.9A, 240V/2.8A	100V/6.9A, 240V/2.8A
Heat Dissipation	1,170.36 BTU/h	1,794.79 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 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	

FortiWLC 1000D

FortiWLC 3000D

ORDER INFORMATION

Product	SKU	Description
FortiWLC 50D Wireless Controller	FWC-50D	FortiWLC 50D Wireless LAN Controller, Maximum 50 APs, 4x 10/100/1000 ethernet ports.
FortiWLC 200D Wireless Controller	FWC-200D	FortiWLC 200D Wireless LAN Controller, Maximum 200 APs, 4x 10/100/1000 ethernet ports.
FortiWLC 500D Wireless Controller	FWC-500D	FortiWLC 500D Wireless LAN Controller, Maximum 500 APs, 4x 10/100/1000 ethernet ports (or 4 GE SFP), 2x 10 GE SFP ports.
FortiWLC 1000D Wireless Controller	FWC-1000D	FortiWLC 1000D Wireless LAN Controller, Maximum 1,000 APs, 4x 10 GE SFP+ ports, 2x GE MGMT ports, 2x 480 GB SSD Storage, Redundant PSU.
FortiWLC 3000D Wireless Controller	FWC-3000D	FortiWLC 3000D Wireless LAN Controller, Maximum 3,000 APs, 8x 10 GE SFP+ ports, 2x GE MGMT ports, 2x 480 GB SSD Storage, Redundant PSU.

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