



FortiWLC™
Wireless Controllers



FortiWLC Wireless Controllers

FWC-50D, 200D and 500D

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 Virtual Cell/Single Channel technology. 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 System Director operating system, the FortiWLC creates a unified wireless LAN environment designed to deliver seamless mobility and superior reliability. System Director 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 optional software for policy enforcement and wireless intrusion prevention. As a Fortinet wireless controller, it integrates with the network management suite, which combines with System Director 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 System Director 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



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) 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	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)	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		



FortiWLC 50D



FortiWLC 200D



FortiWLC 500D

ORDER INFORMATION

Product	SKU	Description
FortiWLC 50D Wireless Controller	FWC-50D-0-XX	Wireless Controller for International. Platform supports up to 50 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy. US/Canada power cord will be provided if no country defined. Please reference the Accessory list for available country-specific power cords.
	FWC-50D-0-US	Wireless Controller for U.S. Platform supports up to 50 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy. US/Canada power cord will be provided.
FortiWLC 200D Wireless Controller	FWC-200D-0-XX	Wireless Controller for International. Platform supports up to 200 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy. US/Canada power cord will be provided if no country defined. Please reference the Accessory list for available country-specific power cords.
	FWC-200D-0-US	Wireless Controller for U.S. Platform supports up to 200 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy. US/Canada power cord will be provided.
FortiWLC 500D Wireless Controller	FWC-500D-0-XX	Wireless Controller for International. Platform supports up to 500 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy. US/Canada power cord will be provided if no country defined. Please reference the Accessory list for available country-specific power cords.
	FWC-500D-0-US	Wireless Controller for U.S. Platform supports up to 500 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy. US/Canada power cord will be provided.



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