



DELL EMC NETWORKING W-7000 SERIES CONTROLLERS

Delivering optimized and secure mobile applications for smaller campuses and branch offices

Dell EMC Networking W-7000 Series cloud services controllers optimize mobility and secure enterprise applications at campus and branch offices while providing configuration, management, encryption and application visibility to ensure the reliable delivery of network services.

The W-7000 Series controllers combine wireless, wired and hybrid WAN services, support up to 64 APs and 24 Ethernet ports, and feature integrated WAN compression, health checks, zero-touch configuration, and policy-based routing. The controllers also unify policy management for wired and wireless, making it simple and cost-effective to create an all-wireless workplace at branch offices.

Capable of handling up to 4,000 users, the W-7000 Series controllers perform stateful firewall policy enforcement at up to 8Gbps. Secure IP tunnels protect branch traffic across the public and private transport network to the cloud and headquarters. Local bridging can be performed, depending on end-user applications or IT traffic forwarding requirements.

The W-7000 Series controllers also support Dell W-Series next-generation Mobility Firewall with AppRF™ technology, which continuously evaluates app usage and performance and makes configuration changes in real-time to ensure optimal bandwidth, priority and network paths in branch offices. This ensures the best possible app experience in the branch, even for those hidden as encrypted or web traffic. And IT gets unprecedented insight into over 1,500 apps, including cloud and web-based services like Lync, SharePoint, Box, GoToMeeting and Salesforce.com.

A real-time dashboard makes it easy to identify and correct quality-of-service tags, load-balance specific apps across APs, adjust RF management and roaming parameters for latency-sensitive apps, and apply bandwidth contracts per app or for a group of apps.

The W-7000 Series controllers support other enterprise-critical capabilities like authentication, encryption, VPN connections, IPv4 and IPv6 services, the Policy Enforcement Firewall™, Adaptive Radio Management™ and ClientMatch™ technologies, and RFPprotect™ spectrum analysis and wireless intrusion protection.

Product summary

- The W-7005 controller is a compact, 4-port, fanless entry-level branch platform that can be powered by a Power-over-Ethernet (PoE) switch.
- The W-7008 controller is a compact, fanless entry-level branch platform with 8 integrated PoE and PoE+ switch ports for small branch locations with some PoE requirements
- The W-7010 controller is designed for mid-sized branch deployments that require several PoE and PoE+ switch ports.
- The W-7024 controller is designed for mid-size branch deployments that require up to 24 switch ports for unified wired and wireless access.
- The W-7030 controller is ideal for mid- to large-sized branch deployments that require unprecedented scale and performance.

Performance and capacity

Features	W-7005	W-7008	W-7010	W-7024	W-7030
Maximum campus AP licenses	16	16	32	32	64
Maximum remote AP licenses	16	16	32	32	64
Maximum concurrent users/devices	1,024	1,024	2,048	2,048	4,096
Maximum VLANs	4,094	4,094	4,094	4,094	4,094
Active firewall sessions	16,384	16,384	32,768	32,768	65,536
Concurrent GRE tunnels	512	512	1,024	1,024	2,048
Concurrent IPsec sessions	512	512	1,024	1,024	2,048
Concurrent SSL fallback sessions	512	512	1,024	1,024	2,048
Mobility Access Switch tunneled-node ports	512	512	1,024	1,024	2,048
Firewall throughput	2Gbps	2Gbps	4Gbps	4Gbps	8Gbps
Encrypted throughput (3DES, AES-CBC)	1.2Gbps	1.2Gbps	2.4Gbps	2.4Gbps	2.4Gbps
Encrypted throughput (AES-CCM)	1.6Gbps	1.6Gbps	3.6Gbps	3.6Gbps	4.4Gbps

Interfaces and indicators

Features	W-7005	W-7008	W-7010	W-7024	W-7030
Form factor/footprint	Compact	Compact	1 rack unit	1 rack unit	1 rack unit
Auto-negotiating 10/100/1000BASE-T	4	8	16	24	8 (combo)
Gigabit Ethernet ports (GBIC or SFP)	N/A	N/A	2 SFP	2 SFP+	8 (combo)
USB 2.0	Yes	Yes (2.0 and 3.0)	Yes (2)	Yes	Yes
Management/status LEDs	Yes	Yes	Yes	Yes	Yes
LINK/ACT and status LEDs	Yes	Yes	No	Yes	Yes
LCD panel and navigation buttons	N/A	N/A	Yes	Yes	Yes
Console port	Yes (mini USB/RJ-45)	Yes (RJ-45)	Yes (mini USB/RJ-45)	Yes (mini USB/RJ-45)	Yes (mini USB/RJ-45)
Out-of-band management port	No	No	Yes	Yes	Yes

Physical

	W-7005	W-7008	W-7010	W-7024	W-7030
Dimensions (H x W x D)	4.1 cm x 20 cm x 20 cm (1.6" x 7.9" x 7.9")	4.2 cm x 20.32 cm x 20.32 cm (1.65" x 8.0" x 8.0")	4.4 cm x 31.8 cm x 33.7 cm (1.7" x 12.5" x 13.3")	4.37 cm x 44.2 cm x 31.3 cm (1.72" x 17.4" x 12.32")	4.4 cm x 30.5 cm x 21.1 cm (1.7" x 12" x 8.3")
Weight	0.92 kg (2.03 lbs)	1.0 kg (2.2 lbs)	3.4 kg (7.5 lbs)	5.127 kg (11.3 lbs)	2.06 kg (4.54 lbs)
MTBF (hours, @ 25C)	323,896	300,000	232,843	311,901	TBD

Environmental range

	W-7005	W-7008	W-7010	W-7024	W-7030
Operating temperature	0° C to 40° C				
Storage temperature	-40° C to 70° C				
Humidity/storage humidity	5% to 95%, NC				
Operating altitude	10,000 feet				
Acoustic noise ¹	0 dBA (fanless)	0 dBA (fanless)	39.8 – 58.6 dBA	34.3 – 71.2 dBA	29.1 – 57.4 dBA
Maximum power consumption	16.6 watts (with USB)	126W with PoE (26W without PoE)	190 watts (with PoE)	450 watts (with PoE)	55 watts

¹Sound power per ETSI 300 753 in accordance with ISO 7779

Regulatory and safety compliance

Description	Specification
Safety certifications	UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition EN 60950:2005 IEC 60950-1 Second Edition NOM (obtained by partners and distributors)
Electromagnetic emissions certifications	FCC Part 15 Class B CE AS/NZS CISPR22 Class B CISPR22 Class B EN55022 Class B ICES-003 Class B VCCI Class B EN61000-3-2 EN61000-3-3 EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, AS/NZS 3548 KN22 Class B KCC CNS13438 Class B EN55024/CISPR24 KN24 Industry Canada Class B CE mark, cTUVus, CB, C-tick, Anatel, NOM, MIC
Telco	Common Language Equipment Identifier (CLEI) Code
Regulatory model number	ARCN0104 (W-7005), ARCN7008 (W-7008), ARCN0103 (W-7010), AARN7024 (W-7024), ARCN7030 (W-7030)
Minimum AOS release	W-7005, AOS 6.4.1.0; W-7008, AOS 6.5.1.0; W-7010, AOS 6.4.1.0, W-7024, AOS 6.4.3.0; W-7030, AOS 6.4.1.0

Ordering information

Part number	Description
W-7000 Series controllers¹	
W-7005-RW	Dell W-7005, four 10/100/1000BASE-T ports, supports up to 16AP and 1K clients, powered by PoE/PoE+ (optional DC power accessory available). This SKU is a rest-of-world product and should not be deployed in the United States.
W-7005-US	Dell W-7005, four 10/100/1000BASE-T ports, supports up to 16AP and 1K clients, powered by PoE/PoE+ (optional DC power accessory available). This SKU is a US only SKU and should not be deployed in rest of world.
W-7005-JP	Dell W-7005, four 10/100/1000BASE-T ports, Supports up to 16AP and 1K clients, powered by PoE/PoE+ (optional DC power accessory available). Japan regulatory domain (for deployments in JP only).
W-7008-RW	Dell W-7008, 8 ports 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller. This SKU is a rest-of-world product and should not be deployed in the United States.
W-7008-US	Dell W-7008, 8 ports 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller. This SKU is a US only SKU and should not be deployed in rest-of-world.
W-7008-JP	Dell W-7008 (JP) 8 ports 100W PoE+10/100/1000BASE-T 16 AP and 1K Client Controller. Japan regulatory domain (for deployments in JP only).
W-7010-RW	Dell W-7010, 12x10/100/1000BASE-T PoE/PoE+ (150W), 4x10/100/1000BASE-T, 2x1G BASE-X SFP ports, supports up to 32 AP and 2K clients. Integrated AC power supply. This SKU is a rest-of-world product and should not be deployed in the United States.
W-7010-US	Dell W-7010, 12x10/100/1000BASE-T PoE/PoE+ (150W), 4x10/100/1000BASE-T, 2x1G BASE-X SFP ports, supports up to 32 AP and 2K clients. Integrated AC power supply. This SKU is a US only SKU and should not be deployed in rest of world.
W-7010-JW	Dell W-7010, 12x10/100/1000BASE-T PoE/PoE+ (150W), 4x10/100/1000BASE-T, 2x1G BASE-X SFP ports, Supports up to 32AP and 2K clients. Integrated AC power supply. Japan regulatory domain (for deployments in JP only).
W-7024-RW	Dell W-7024, 24x10/100/1000BASE-T PoE/PoE+ (400W), 2 x10G BASE-X SFP+ ports, supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is a rest-of-world product and should not be deployed in the United States.
W-7024-JP	Dell W-7024, 24x10/100/1000BASE-T PoE/PoE+ (400W), 2x10G BASE-X SFP+ ports, supports up to 32AP and 2K clients. Integrated AC power supply. This SKU is a Japan only SKU and should not be deployed in rest-of-world.
W-7024-USF1	Dell W-7024, 24x10/100/1000BASE-T PoE/PoE+ (400W), 2 x10G BASE-X SFP+ ports, supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is a US only SKU and should not be deployed in rest of world.
W-7030-RW	Dell W-7030, 8x10/100/1000BASE-T or 8x1GBASE-X SFP dual personality ports, supports up to 64 AP and 4K clients. Integrated AC power supply. This SKU is a rest-of-world product and should not be deployed in the United States.
W-7030-US	Dell W-7030, 8x10/100/1000BASE-T or 8x1GBASE-X SFP dual personality ports, supports up to 64 AP and 4K clients. Integrated AC power supply. This SKU is a US only SKU and should not be deployed in rest of world.
W-7030-JP	Dell W-7030, 8x10/100/1000BASE-T or 8x1GBASE-X SFP dual personality ports, supports up to 64 AP and 4K clients. Integrated AC power supply. Japan regulatory domain (for deployments in JP only).

¹ Hardware: 1 year parts/labor; can be extended with support contract.
Software: 90 days with Extended* support contract.

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Ordering information

Part number	Description	W-7005	W-7008	W-7010	W-7024	W-7030
W-7000 Series accessories: optics						
SFP-LX	1000BASE-LX SFP; 1310nm pluggable GbE optic; LC connector			✓	✓	✓
SFP-SX	1000BASE-SX SFP; 850nm pluggable GbE optic; LC connector			✓	✓	✓
SFP-TX	1000BASE-T SFP; copper GbE pluggable; RJ45 connector			✓	✓	✓
SFP-10GE-LRM	10GBASE-LRM SFP+ 10GbE optic; LC connector				✓	
SFP-10GE-SR	10GBASE-SR SFP+ 10GbE optic; LC connector				✓	
SFP-10GE-LR	10GBASE-LR SFP+ 10GbE optic; LC connector				✓	
DAC-SFP-10GE-50CM	50cm length, 10GbE SFP+ direct attach cable (DAC)				✓	
DAC-SFP-10GE-1M	1m length, 10GbE SFP+ direct attach cable (DAC)				✓	
DAC-SFP-10GE-3M	3m length, 10GbE SFP+ direct attach cable (DAC)				✓	
DAC-SFP-10GE-5M	5m length, 10GbE SFP+ direct attach cable (DAC)				✓	
DAC-SFP-10GE-7M	7m length, 10GbE SFP+ direct attach cable (DAC)				✓	
W-7000 Series accessories: mounting kits						
W-7005-MNT-19	W-7005 19" Rack Mount Tray	✓				
W-7008-MNT-19	W-7008 19" Rack Mount Kit		✓			
W-7010-MNT-19	W-7010 19" Rack Mount Kit Spare			✓		
W-7030-MNT-19	W-7030 19" Rack Mount Kit Spare					✓
SPR-RK3-MNT	W-7024 Rack Mount Kit Spare				✓	
SPR-WL2-MNT	W-7024 Wall/Rack Mount Kit				✓	
W-7000 Series accessories: power						
AP-AC-12V30A	W-7005 12 V/24W indoor AC power adapter.	✓				
W-7000 Series accessories: power cords						
PC-AC-ARG	Argentina					
PC-AC-AUS	Australia					
PC-AC-BR	Brazil					
PC-AC-CHN	China					
PC-AC-DEN	Denmark					
PC-AC-EC	Continental Europe					
PC-AC-IN	India					
PC-AC-IT	Italy					
PC-AC-JPN	Japan					
PC-AC-KOR	Korea					
PC-AC-NA	North America					
PC-AC-SWI	Switzerland					
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