



Dell Networking W-Series: W-6000 Mobility Controller Chassis and W-6000M3 Mobility Controller Module

Designed to meet wide range of mobility, security and management of corporate headquarters and large campus deployments, the Dell Networking W-6000 Mobility Controllers can be easily deployed without disrupting the existing wired network.

The W-6000 controller chassis is enabled with pluggable W-6000M3 controller modules (up to four modules per chassis), hot-swappable redundant power supplies (up to three per chassis) and a hot-swappable fan tray. Each W-6000 controller chassis can support up to 2,048 campus access points (APs) - 512 campus APs per W-6000M3 controller module. Located in the distribution layer or in the data center, the W-6000 Mobility Controllers manage complex and processing-intensive authentication and encryption, virtual private networking (VPN), Layer 2-3 networking, Policy Enforcement Firewall (PEF), Adaptive Radio Management (ARM), and the RFProtect™ Spectrum Analyzer and Wireless Intrusion Protection capabilities.

The wireless LAN configuration is virtualized and implemented in cost-effective 802.11n access points (APs) at the access layer. Dell Networking W-APs can move user traffic to the 6000 Mobility Controllers through secure IP tunnels over a public or private transport network, and locally bridge at the access layer, depending on the end user application or traffic forwarding requirements set forth by IT administrators.

Clustering and centralized management allow large enterprise networks with hundreds of Mobility Controllers to be managed and maintained with minimal staff. In addition, the Dell Networking W-Series AirWave Wireless Management Suite (AWMS) helps provide unprecedented control for IT staff through historical reporting and real-time troubleshooting.

Highly scalable, easy to deploy, modular wireless controller with centralized management for headquarters and large campus. Supports up to 2,048 access points.

Specifications

W-Series W-6000 Controller Chassis features

- W-6000M3 controller modules (up to four modules per W-6000 Controller chassis)
- Hot-swappable redundant power supplies (up to three units per W-6000 Controller chassis)
- Hot-swappable fan tray

W-Series W-6000 Controller power supply options

- Power supplies: up to three power supply modules (main plus back ups) can be installed in the chassis. Back up unit ensures system availability in the event of main power supply module failure. Commonly known as N+1 redundancy.

HW-PSU-400: 400 Watt AC power supply module

- AC input voltage: 85-264 VAC, auto-sensing
- AC input current: 5A @110 VAC
- AC input frequency: 47-63 Hz
- Maximum power consumption: 400 watts

W-6000 Chassis - mechanical

- Dimensions: HxWxD 146 mm x 444 mm x 317.5mm (5.75" x 17.4" x 12.5")
- Weight : 13.6 kgs (30 lbs) – includes unboxed W-6000 chassis, fan tray and 2 off power supply units.

W-Series W6000 - environmental

- Operating:
 - Temp: -0° to 70° C (32° to 104° F)

Certifications

- FIPS/TAA certified SKU available

Regulatory and Safety Compliance

- FCC part 15 Class A CE
- Industry Canada Class A
- VCCI Class A (Japan)
- EN 55022 Class A (CISPR 22 Class A), EN 61000-3,
- 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, EN 55024, AS/NZS 3548
- UL 60950, EN60950
- CAN/CSA 22.2 #60950
- CE mark, cTUVus, GS, CB, C-tick, Anatel, NOM, MIC, IQC

Product meets EMC, safety and wireless standards of over 50 countries inclusive of; USA (FCC), Canada, EU, Japan, Korea, China. For more country-specific regulatory information, and approvals, please see your Dell representative.

Warranty

- One-Year Warranty

Minimum OS version

- 5.0.2.3

W-6000M3 Controller module

Designed for the performance needs of 802.11n, the Dell W-Series W-6000M3 Controller is built on a flexible multi-core processing architecture that makes it adaptable to wireless LAN, remote networking, or network security services.

W-6000M3 Controller Module interfaces

- 10x Gigabit Ethernet (1000Base-X) SFP
- 2x 10 Gigabit Ethernet (1000Base-X) SFP
- Out of band management Ethernet (100Base-T) console (RS-232) RJ-45

W-6000M3 Controller Module - storage

- On-board compact flash – 512 MB



Networking 6000M3 Controller Module: Performance and capacity

Feature	W-6000 Chassis with single 6000M3 Controller Module	W-6000 Chassis with four 6000M3 Controller Module
LAN-connected access points*	Up to 512	Up to 2048
Remote Access Points*	Up to 1,024	Up to 4096
Users	Up to 8,192	Up to 32,768
MAC addresses	64,000	256,000
VLAN IP interfaces	1,400	5,600
Number of IPv4 unicast routes	2,048	8,192
Active firewall sessions	524,300	2,097,200
System BSSIDs	4,096	16,384
Concurrent IPSec tunnels	Up to 4,096	Up to 16,384
Firewall throughput	20 Gbps	80 Gbps
Encrypted throughput (3DES)	8 Gbps	32 Gbps
Encrypted throughput (AES-CCM)	4 Gbps	16 Gbps

*Capacity determined by AP, PEF, and RFP software license

Ordering Information	
Part number	Description
W-6000-400	Dell W-6000 base system. Includes 400W power Supply unit and fan tray. SPOE Power, Unrestricted Regulatory Domain
W-6000-400-F1	Dell W-6000 Base System. Includes 400W power Supply unit and fan tray. Unrestricted Regulatory Domain, FIPS/TAA Compliant.
W-6000-400-US	Dell W-6000-US base system. Includes 400W power Supply unit and fan tray. SPOE Power, Restricted Regulatory Domain – US
W-6000-400-USF1	Dell W-6000 Base System, base system. Includes 400W power Supply unit and fan tray. Restricted Regulatory Domain - US, FIPS/TAA Compliant.
HW-FT	Dell W-6000 Series Replacement Fan Tray
HW-PSU-400	Dell W-6000 Series Power Supply - 400 Watt
M3mk1-S W-6000M3 Module	Dell W-6000M3 Module Mark I, 10x 1000Base-X (SFP), 2x 10GBase-X (XFP), (0 AP Support)
M3mk1-S-F1 W-6000-M3F1	Dell W-6000M3 Module Mark I, 10x 1000Base-X (SFP), 2x 10GBase-X (XFP), (0 AP Support). FIPS/TAA Compliant
HW-MNT-19	Dell W-6000 Series Replacement 19" Equipment Rack Mounting Kit
SFP-LX	W-SFP - 1000Base-LX, LC connector
SFP-SX	W-SFP - 1000Base-SX, LC Connector
SFP-TX	W-SFP - 1000Base-T, RJ45
XFP-LR	W-XFP - 1310nm serial pluggable XFP optic (LC) for up to 10km over SMF
XFP-SR	W-XFP - 850nm serial pluggable XFP optic (LC), target range 300m over MMF

Field Replaceable Unit (FRU)	
HW-CHAS	Dell W-6000 series 4-slot Chassis (excludes fan tray), Unrestricted Regulatory Domain
HW-CHAS-US	Dell W-6000 series 4-slot Chassis (excludes fan tray), Restricted Regulatory Domain – US
HW-SC-LC-BLANK	Dell W-6000 Series power supply unit slot blank panel
HW-PSU-BLANK	Dell W-6000 Series Supervisor / line card slot blank panel

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