



ARUBA 6000 MOBILITY CONTROLLER

The modular 6000 Mobility Controller from Aruba delivers a wide range of network services to large campus networks. Offering unmatched scalability, the 6000 controller supports up to 32,768 users and performs stateful firewall policy enforcement at speeds up to 80 Gbps.



Through secure IP tunnels, Aruba access points (APs) and Mobility Access Switches move traffic to the 6000 controller over a public or private transport network and provide local bridging at the access layer, depending on the end user application or IT traffic forwarding requirements.

Core functionality for the 6000 controller is provided by Aruba M3 controller modules. Up to four M3 modules can be installed in one 6000 controller chassis. Fully configured, the 6000 controller supports up to 2,048 APs, 512 Mobility Access Switches or 4,096 Remote APs (RAPs).

The 6000 controller also manages authentication, encryption, virtual private network (VPN) connections, IPv4 and IPv6 Layer 3 networking, the Aruba Policy Enforcement Firewall (PEF), Aruba Adaptive Radio Management (ARM), and Aruba RFProtect™ Spectrum Analysis and Wireless Intrusion Protection capabilities.

Clustering and centralized management enable the deployment of large networks with hundreds of Mobility Controllers with minimal staff. A master Mobility Controller can manage local Mobility Controllers, while AirWave™ provides enterprise-wide clarity and control through real-time monitoring, historical reporting and troubleshooting.

OPERATING SPECIFICATIONS AND DIMENSIONS

Operating temperature range	0° C to 40° C
Storage temperature range	-40° C to 70° C
Humidity, non-condensing	5% to 95%
Height	5.75" (146 mm)
Width	17.4" (444 mm)
Depth	12.5" (317.5 mm)
Weight	30 lbs. (unboxed)

CONTROLLER POWER SUPPLY OPTIONS

Power supplies Up to 3 (N+1 available)

HW-PSU-400: AC power supplies deliver 400 W of power

AC input voltage	85-264 VAC, auto-sensing
AC input frequency	47-63 Hz
AC input current	5 A @ 110 VAC

(HW-PSU-400 required for M3 module or PoE)

WARRANTY

Hardware	1 year parts/labor*
Software	90 days*

* Extended with support contract

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

FEATURES

- Hot-swappable redundant power supplies (N+1 available)
- Hot-swappable fan tray
- Redundant supervisor modules

Aruba M3 Controller Module

The Aruba M3 Controller Module leads the industry in performance. Designed for the performance needs of 802.11n, the M3 is built on a flexible multi-core processing architecture that makes it adaptable to wireless LAN, remote networking, or network security services.



PERFORMANCE AND CAPACITY

LAN-connected access points ¹	Up to 512
Remote Access Points ¹	Up to 1,024
Wired Access Points ¹	Up to 128
Users	Up to 8,192
MAC addresses	64,000
VLAN IP interfaces	1,400
Number of IPv4 unicast routes	2,048
Active firewall sessions	524,300
System BSSIDs	8,192
Concurrent IPSec tunnels	Up to 4,096
Firewall throughput	20 Gbps
Encrypted throughput (3DES)	8 Gbps
Encrypted throughput (AES-CCM)	4 Gbps

INTERFACES

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

STORAGE

On-board compact flash 512 MB

¹ Capacity determined by AP, PEF, and RFP software licenses

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
<u>Base Systems</u>		<u>Accessories</u>	
Base systems are selected by regulatory domain and power supply. Use enhanced (400W) power for SPOE line cards and for the M3 supervisor module. Each base system includes two power supplies.			
6000-400	Aruba 6000 base system, enhanced power, unrestricted regulatory domain	HW-CHAS	Aruba 6000 Series base 4-slot chassis (excludes fan tray), unrestricted regulatory domain
6000-400-US	Aruba 6000 base system, enhanced power, United States regulatory domain	HW-CHAS-US	Aruba 6000 Series base 4-slot chassis (Excludes Fan Tray), United States regulatory domain
6000-400-IL	Aruba 6000 base system, enhanced power, Israel regulatory domain	HW-CHAS-IL	Aruba 6000 Series base 4-slot chassis (excludes fan tray), Israel regulatory domain
<u>Supervisor Modules</u>		HW-PSU-400	Aruba 6000 Series power supply - 400 Watt
M3mk1-128	Aruba M3 Controller Module, 10 x 1000Base-X (SFP), 2x 10 GBase-X (XFP), (128 AP support)	HW-FT	Aruba 6000 Series replacement fan tray
M3mk1	Aruba M3 Controller Module, 10 x 1000Base-X (SFP), 2x 10 GBase-X (XFP), (0 AP support)	HW-SC-LC-BLANK	Aruba 6000 Series Supervisor / line card slot blank panel
<u>Pluggable Ethernet Modules</u>		HW-PSU-BLANK	Aruba 6000 Series power supply unit slot blank panel
SFP-TX	Aruba SFP - 1000Base-T, RJ45	HW-MNT-19	Aruba 6000 Series replacement 19" equipment rack mounting kit
SFP-SX	Aruba SFP - 1000Base-SX, LC Connector		
SFP-LX	Aruba SFP - 1000Base-LX, LC connector		
XFP-SR	Aruba XFP - 850 nm serial pluggable XFP optic (LC), target range 300 m over MMF		
XFP-LR	Aruba XFP - 1310 nm serial pluggable XFP optic (LC) for up to 10 km over SMF		



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