

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

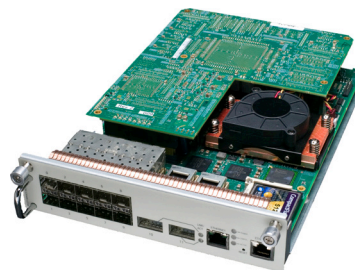
- FCC part 15 Class A CE
- Industry Canada Class A
- VCCI Class A (Japan)
- EN 55022 Class A (CISPR 22 Class A), EN 61000-3
- EN 61000-4-2, EN 61000-4-3, EN 61000-4-4
- EN 61000-4-5, EN 61000-4-6, EN 61000-4-8
- EN 61000-4-11, EN 55024, AS/NZS 3548
- UL 60950, EN60950
- CAN/CSA 22.2 #60950
- CE mark, 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.



Aruba M3 Controller Module

Performance and Capacity

- LAN-connected access points¹: Up to 512
- Remote Access Points¹: Up to 1,024
- Wired Access Points¹: 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 RFProtect software licenses

ORDERING INFORMATION

Part Number Description

Base Systems

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
6000-400-US	Aruba 6000 base system, enhanced power, United States regulatory domain
6000-400-IL	Aruba 6000 base system, enhanced power, Israel regulatory domain

Supervisor Modules

M3mk1-128	Aruba M3 Controller Module, 10 x 1000Base-X (SFP), 2x 10 GBase-X (XFP), (128 AP support)
M3mk1	Aruba M3 Controller Module, 10 x 1000Base-X (SFP), 2x 10 GBase-X (XFP), (0 AP support)

Pluggable Ethernet Modules

SFP-TX	Aruba SFP – 1000Base-T, RJ45
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

Accessories

HW-CHAS	Aruba 6000 Series base 4-slot chassis (excludes fan tray), unrestricted regulatory domain
HW-CHAS-US	Aruba 6000 Series base 4-slot chassis (Excludes Fan Tray), United States regulatory domain
HW-CHAS-IL	Aruba 6000 Series base 4-slot chassis (excludes fan tray), Israel regulatory domain
HW-PSU-400	Aruba 6000 Series power supply – 400 Watt
HW-FT	Aruba 6000 Series replacement fan tray
HW-SC-LC-BLANK	Aruba 6000 Series Supervisor/line card slot blank panel
HW-PSU-BLANK	Aruba 6000 Series power supply unit slot blank panel
HW-MNT-19	Aruba 6000 Series replacement 19" equipment rack mounting kit

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