



ARUBA 6000 CONTROLLER

The Aruba 6000 Controller is a fully-featured modular controller able to aggregate up to 8,192 access points (APs) in a single chassis.

Designed to address a wide range of wireless and wired network mobility, security, and remote networking requirements for corporate headquarters and large campus-wide deployments, the Aruba 6000 can be easily installed without any disruption to the existing wired network. The Aruba 6000 acts as the head-end portion of Aruba’s “virtual enterprise network” architecture, which uses central controllers in the data center to manage complex and processing-intensive management and security functions. Edge services are virtualized and can be implemented in cost-effective access points at the network edge, which move user traffic to the data center controllers using secure IP tunnels operating over any available public or private transport network. Running the ArubaOS operating system, the Aruba 6000 comes standard with advanced authentication, encryption, wireless radio management, secure enterprise wireless mesh, and L2/L3 networking features. Optional ArubaOS software modules unlock additional functionality including policy enforcement firewall, VPN server, remote access gateway, and wireless intrusion prevention.



Controller clustering and centralized management allow even the largest enterprise, with hundreds of controllers, to be managed and maintained with minimal staff overhead. A designated “master” controller may be used to manage multiple “local” controllers, or for larger networks the AirWave Management Platform provides the highest visibility and control for the entire IT staff.

Core functionality is enabled by one of three available supervisor modules. Multiple supervisor modules may be installed in a single chassis, and mixing of different supervisor module types is supported.

OPERATING SPECIFICATIONS AND DIMENSIONS

Operating temperature range	0° to 40° C
Storage temperature range	-40° 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-200: AC power supplies deliver 200 W of power

AC input voltage	90-132 VAC, 170-264 VAC
AC input frequency	47-63 Hz
AC input current	5 A @ 110 VAC

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

LINE CARD OPTIONS

LC-2G: 2x1000Base-X GBIC slots

LC-2G24F: 2x1000Base-X GBIC slots and 24x100Base-T ports
 802.3af Power over Ethernet No
 Serial over Ethernet No

LC-2G24FP: 2x1000Base-X GBIC slots and 24x100Base-T ports
 802.3af Power over Ethernet Yes
 Serial over Ethernet Yes

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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 2,048
Users ²	Up to 8,192
MAC addresses	64,000
VLAN IP interfaces	128
Active firewall sessions	524,300
Concurrent IPsec tunnels	Up to 8,192
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

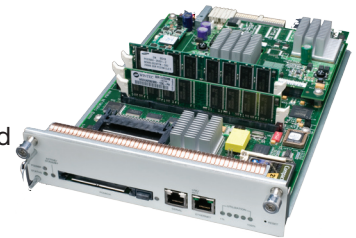
On-board Compact Flash 512MB

¹ Capacity determined by AP, RAP, and WIP software licenses

² Capacity determined by PEF and VOC software licenses

Aruba Supervisor Card II (SC2)

The Aruba Supervisor Card II (SC2) is a controller module that supports up to 256 LAN-connected 802.11a/b/g/n wireless access points. A line card module is required to provide network connectivity.



PERFORMANCE AND CAPACITY

LAN-connected Access Points	256
Remote Access Points	256
Users	4,096
MAC addresses	64,000
VLAN IP interfaces	128
Active firewall sessions	256,000
Concurrent IPsec tunnels	4,096
Firewall throughput	4 Gbps
Encrypted throughput (3DES)	3.6 Gbps
Encrypted throughput (AES-CCM)	3.6 Gbps

INTERFACES

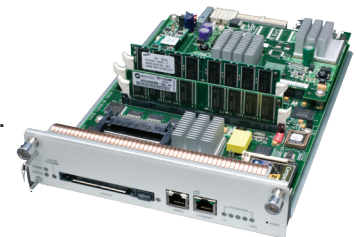
Out-of-band Management Ethernet (100Base-T)
Console (RS-232) RJ-45

STORAGE

On-board Compact Flash 256MB
PCMCIA expansion Yes

Aruba Supervisor Card I (SC1)

The Aruba Supervisor Card I (SC1) is the original controller module for the Aruba 6000 that supports up to 128 LAN-connected 802.11a/b/g/n wireless access points. A line card module is required to provide network connectivity. The SC1-48 variant supports up to 48 access points, while the SC1-128 supports up to 128.



PERFORMANCE AND CAPACITY

LAN-connected Access Points	48 or 128
Remote Access Points	48 or 128
Users	4,096
MAC addresses	64,000
VLAN IP interfaces	128
Active firewall sessions	256,000
Concurrent IPsec tunnels	4,096
Firewall throughput	4 Gbps
Encrypted throughput (3DES)	1.8 Gbps
Encrypted throughput (AES-CCM)	1.8 Gbps

INTERFACES

Out-of-band Management Ethernet (10/100/1000Base-T)
Console (RS-232) RJ-45

STORAGE

On-board Compact Flash 256MB
PCMCIA expansion Yes

ARUBA 6000 CONTROLLER

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
<u>Base Systems</u>		<u>Line Cards</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.			
6000-200	Aruba 6000 Base System, Standard Power, Unrestricted regulatory domain	LC-2G	Aruba 2xGE Line Card
6000-200-US	Aruba 6000 Base System, Standard Power, United States regulatory domain	LC-2G24F	Aruba 2xGE/24FE Line Card
6000-200-IL	Aruba 6000 Base System, Standard Power, Israel regulatory domain	LC-2G24FP	Aruba 2xGE/24 FE Line Card SPOE
6000-400	Aruba 6000 Base System, Enhanced Power, Unrestricted regulatory domain	LC-GBIC-T	Aruba GBIC Interface Adapter - T
6000-400-US	Aruba 6000 Base System, Enhanced Power, United States regulatory domain	LC-GBIC-SX	Aruba GBIC Interface Adapter - SX
6000-400-IL	Aruba 6000 Base System, Enhanced Power, Israel regulatory domain	LC-GBIC-LX	Aruba GBIC Interface Adapter - LX
<u>Supervisor Modules</u>		<u>Pluggable Ethernet Modules</u>	
SC-48-C1	Aruba Supervisor Card I (48 AP Support)	SFP-TX	Aruba SFP - 1000Base-T, RJ45
SC-128-C1	Aruba Supervisor Card I (128 AP Support)	SFP-SX	Aruba SFP - 1000Base-SX, LC Connector
SC-256-C2	Aruba Supervisor Card II (256 AP Support)	SFP-LX	Aruba SFP - 1000Base-LX, LC connector
M3mk1-128	Aruba M3 Controller Module, 10x 1000Base-X (SFP), 2x 10GBase-X (XFP), (128 AP Support)	XFP-SR	Aruba XFP - 850 nm serial pluggable XFP optic (LC), target range 300 m over MMF
M3mk1	Aruba M3 Controller Module, 10x 1000Base-X (SFP), 2x 10GBase-X (XFP), (0 AP Support)	XFP-LR	Aruba XFP - 1310 nm serial pluggable XFP optic (LC) for up to 10 km over SMF
		<u>Accessories</u>	
		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-200	Aruba 6000 Series Power Supply - 200 Watt
		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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