

데이터시트

# 아루바 7000 시리즈 클라우드 서비스 컨트롤러

브랜치 오피스 올-와이어리스 업무환경 구현

아루바 7000 시리즈 클라우드 서비스 컨트롤러(Aruba 7000 Series Cloud Services Controller)는 브랜치 오피스에서 클라우드 서비스를 최적화하고 엔터프라이즈 애플리케이션을 보호합니다. 이와 동시에 구성, 관리, 암호화, 애플리케이션 가시성을 제공하여 네트워크 서비스의 안정적인 지원을 보장합니다.

7005, 7010, 7024, 7030 클라우드 서비스 컨트롤러(Cloud Services Controller)는 AP를 16에서 64대까지 지원합니다. 클라우드 서비스 컨트롤러는 또한 유무선 통합 정책 관리를 제공합니다. 따라서 브랜치 오피스에서 비용대비 효과적인 올-와이어리스(all-wireless) 업무환경을 구현할 수 있습니다.

7000 시리즈 플랫폼은 최대 4,000 사용자를 지원할 수 있으며, 최대 8 Gbps 속도로 스테이트풀 방화벽 정책을 실행할 수 있습니다. 보안 IP 터널을 생성하여 퍼블릭 및 프라이빗 전송 네트워크 전반에서 클라우드 및 본사까지 연결되는 브랜치 트래픽을 보호합니다. 엔드유저 애플리케이션 또는 IT 트래픽 포워딩 요구에 따라 로컬 브리징(bridging)을 실행할 수 있습니다.

7000 시리즈는 또한 AppRF™ 기술로 아루바 차세대 모빌리티 방화벽을 지원합니다. 이를 통해 앱 사용량 및 성능을 지속적으로 측정하고 실시간으로 구성을 변경함으로써 브랜치 오피스에서 최적의 대역폭, 우선순위, 네트워크 경로를 보장합니다.

따라서 브랜치 환경에서 사용자가 최상의 앱 성능을 경험할 수 있도록 보장합니다. 암호화 되었거나 웹 트래픽 내부에 숨겨진 앱에 대해서도 모두 최상의 사용자 경험을 보장합니다. IT 팀은 Lync, SharePoint, Box, GoToMeeting, Salesforce.com 등과 같은 클라우드 및 웹 기반 앱을 비롯하여 1,500여 가지 이상의 앱에 대한 탁월한 가시성을 확보할 수 있습니다.

실시간 대시보드를 통해 QoS 태그를 쉽게 식별하고 수정할 수 있도록 해주며, 특정 앱을 AP 전반에 로드 밸런싱할 수 있습니다. 또한 지연에 민감한 앱들에 대해 RF 관리 및 로밍 패러미터를 조정하고, 개별 앱 또는 그룹에 대해 대역폭 계약을 적용할 수 있습니다.



아루바 7005, 7030, 7010 컨트롤러

7000 시리즈는 인증, 암호화, VPN 연결, IPv4 및 IPv6 서비스, Policy Enforcement Firewall™, Adaptive Radio Management™, ClientMatch™ 기술, RFProtect™ 스펙트럼 분석 및 WIP(wireless intrusion protection) 등의 주요 엔터프라이즈 기능을 지원합니다.

## 제품 요약

- 7005 클라우드 서비스 컨트롤러: 컴팩트한 팬리스(fanless) 엔트리 레벨 브랜치 플랫폼으로서 PoE 스위치를 지원.
- 7010 클라우드 서비스 컨트롤러: 여러 개의 PoE 및 PoE+ 스위치 포트가 요구되는 중형 브랜치 구축에 적합.
- 7024 클라우드 서비스 컨트롤러: 유무선 통합 액세스를 위한 24개의 스위치 포트가 요구되는 중형 브랜치 구축에 적합.
- 7030 클라우드 서비스 컨트롤러: 뛰어난 확장성과 성능이 요구되는 중대형 브랜치 구축에 적합.



아루바 7024 컨트롤러

## PERFORMANCE AND CAPACITY

Features	7005	7010	7024	7030
Maximum campus AP licenses	16	32	32	64
Maximum remote AP licenses	16	32	32	64
Maximum concurrent users/devices	1,024	2,048	2,048	4,096
Maximum VLANs	4,094	4,094	4,094	4,094
Active firewall sessions	16,384	32,768	32,768	65,536
Concurrent GRE tunnels	512	1,024	1,024	2,048
Concurrent IPsec sessions	512	1,024	1,024	2,048
Concurrent SSL fallback sessions	512	1,024	1,024	2,048
Mobility Access Switch tunneled-node ports	512	1,024	1,024	2,048
Firewall throughput	2 Gbps	4 Gbps	4 Gbps	8 Gbps
Encrypted throughput (3DES, AES-CBC)	1.2 Gbps	2.4 Gbps	2.4 Gbps	2.4 Gbps
Encrypted throughput (AES-CCM)	2.2 Gbps	3.6 Gbps	3.6 Gbps	4.4 Gbps

## INTERFACES AND INDICATORS

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

## PHYSICAL

	7005	7010	7024	7030
Dimensions (H x W x D)	4.1 cm x 20 cm x 20 cm (1.6" x 7.9" x 7.9")	4.42 cm x 31.75 cm x 33.7 cm (1.74" x 12.75" 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)	3.4 kg (7.5 lbs)	5.127 kg (11.3 lbs)	2.06 kg (4.54 lbs)
MTBF (hours, @ 25C)	323,896	232,843	311,901	390,679

<b>ENVIRONMENTAL RANGE</b>				
<b>Specification</b>	<b>7005</b>	<b>7010</b>	<b>7024</b>	<b>7030</b>
Operating temperature	0° C to 40° C			
Storage temperature	-40° C to 70° C			
Humidity/storage humidity	10% to 95%, NC			
Operating altitude	10,000 feet			
Acoustic noise <sup>1</sup>	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)	190 watts (with PoE)	450 watts (with PoE)	55 watts

<sup>1</sup> Sound power per ETSI 300 753 in accordance with ISO 7779

<b>REGULATORY AND SAFETY COMPLIANCE</b>	
<b>Description</b>	<b>Specification</b>
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 A (7010, 7024, 7030), Class B (7005) EN55022 Class A (7010, 7024, 7030), Class B (7005) ICES-003 Class A (7010, 7024, 7030), Class B (7005) VCCI Class A (7010, 7024, 7030), Class B (7005) 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 SKU information	ARCNO104(7005), ARCNO103(7010), ARCN7024(7024), ARCN7030(7030)
Minimum ArubaOS Release	7005, AOS 6.4.1.0; 7010, AOS 6.4.1.0; 7024, AOS 6.4.3.0; 7030, AOS 6.4.1.0

ORDERING INFORMATION	
Part Number	Description
<b>Controllers<sup>1</sup></b>	
7005-RW	Aruba 7005, 4 x 10/100/1000BASE-T ports, Supports up to 16 APs and 1K clients, powered by PoE-PD ethernet port (optional DC power accessory available). This SKU is a rest-of-world product and should not be deployed in the United States.
7005-US	Aruba 7005, 4 x 10/100/1000BASE-T ports, Supports up to 16 APs and 1K clients, powered by PoE-PD ethernet port (optional DC power accessory available). This SKU is a US only SKU and should not be deployed in rest-of-world.
7005-IL	Aruba 7005, 4 x 10/100/1000BASE-T ports, Supports up to 16 APs and 1K clients, powered by PoE-PD ethernet port (optional DC power accessory available). This SKU is an Israel only SKU and should not be deployed in rest-of-world.
7005-JP	Aruba 7005, 4 x 10/100/1000BASE-T ports, Supports up to 16 APs and 1K clients, powered by PoE-PD ethernet port (optional DC power accessory available). This SKU is a Japan only SKU and should not be deployed in rest-of-world.
7010-RW	Aruba 7010, 12 x 10/100/1000BASE-T PoE/PoE+ (150W), 4 x 10/100/1000BASE-T, 2x1G 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.
7010-US	Aruba 7010, 12 x 10/100/1000BASE-T PoE/PoE+ (150W), 4 x 10/100/1000BASE-T, 2x1G 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.
7010-IL	Aruba 7010, 12 x 10/100/1000BASE-T PoE/PoE+ (150W), 4 x 10/100/1000BASE-T, 2 x 1G BASE-X SFP ports, Supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is an Israel only SKU and should not be deployed in rest-of-world.
7010-JP	Aruba 7010, 12 x 10/100/1000BASE-T PoE/PoE+ (150W), 4 x 10/100/1000BASE-T, 2 x 1G BASE-X SFP ports, Supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is a Japan only SKU and should not be deployed in rest-of-world.
7024-RW	Aruba 7024, 24 x 10/100/1000BASE-T PoE/PoE+ (400W), 2 x 10G 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.
7024-US	Aruba 7024, 24 x 10/100/1000BASE-T PoE/PoE+ (400W), 2 x 10G 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.
7024-IL	Aruba 7024, 24 x 10/100/1000BASE-T PoE/PoE+ (400W), 2 x 10G BASE-X SFP+ ports, Supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is an Israel only SKU and should not be deployed in rest-of-world.
7024-JP	Aruba 7024, 24 x 10/100/1000BASE-T PoE/PoE+ (400W), 2 x 10G BASE-X SFP+ ports, Supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is a Japan only SKU and should not be deployed in rest-of-world.
7030-RW	Aruba 7030, 8 x 10/100/1000BASE-T or 8 x 1GBASE-X SFP Dual-Media Ports, Supports up to 64 APs and 4K clients. Integrated AC power supply. This SKU is a rest-of-world product and should not be deployed in the United States.
7030-US	Aruba 7030, 8 x 10/100/1000BASE-T or 8 x 1GBASE-X SFP Dual-Media Ports, Supports up to 64 APs and 4K clients. Integrated AC power supply. This SKU is a US only SKU and should not be deployed in rest-of-world.
7030-IL	Aruba 7030, 8 x 10/100/1000BASE-T or 8 x 1GBASE-X SFP dual personality ports, Supports up to 64 APs and 4K clients. Integrated AC power supply. This SKU is an Israel only SKU and should not be deployed in rest-of-world.
7030-JP	Aruba 7030, 8 x 10/100/1000BASE-T or 8 x 1GBASE-X SFP dual personality ports, Supports up to 64 APs and 4K clients. Integrated AC power supply. This SKU is a Japan only SKU and should not be deployed in rest-of-world.

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

## ORDERING INFORMATION

Part Number	Description
<b>Controller Accessories</b>	
AP-AC-12V24UN	AP-AC-12V24UN 12V/24W indoor 7005 AC power adapter. Universal, ships with 8 country-specific plug inserts
7010-MNT-19	Aruba 7010 Series Replacement 19" Equipment Rack Mounting Equipment
SPR-RK3-MNT	Aruba 7024 Replacement 19" Rack Mounting Equipment
SPR-WL2-MNT	Aruba 7024 Wall mounting accessory kit
7030-MNT-19	Aruba 7030 Series Replacement 19" Equipment Rack Mounting Equipment
SFP-LX	Aruba SFP – 1000BASE-LX, LC connector
SFP-SX	Aruba SFP – 1000BASE-SX, LC connector
SFP-TX	Aruba SFP – 1000BASE-T, RJ-45
SFP-10GE-SR	Aruba SFP+ 10GBASE-SR 850-nm serial pluggable SPF+ optic (LC), target range 300 meters over MMF, LC connector
SFP-10GE-LRM	Aruba SFP+ 10BASE-LRM 1310-nm serial pluggable SFP+ optic (LC) target range 300 meters over MMF, LC connector
SFP-10GE-LR	Aruba SFP+ 10GBASE-LR 1310-nm serial pluggable SFP+ optic (LC) for up to 10 km over SMF, LC connector

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



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