

데이터시트

## 아루바 7200 시리즈 모빌리티 컨트롤러

아루바 7200 시리즈 모빌리티 컨트롤러(Mobility Controller)는 모바일 애플리케이션 전송에 최적화된 차세대 네트워킹 플랫폼으로서, 사용자가 Wi-Fi를 통해 최상의 모빌리티를 경험할 수 있도록 보장합니다.

7200 시리즈에는 각각 4개의 스레드를 가진 8개의 코어가 장착된 새로운 중앙 프로세서가 탑재되어 있습니다. 이는 32개의 버추얼 CPU를 가진 것과 마찬가지입니다. 이를 통해 7200 시리즈는 모바일 디바이스 32,000대를 지원하고, 40 Gbps 속도로 스테이트풀 방화벽 정책 적용을 수행합니다. 아울러 BYOD와 802.11ac 디바이스들을 위한 막대한 용량과 빠른 속도를 제공합니다.

7200 시리즈 모빌리티 컨트롤러 상에서 실행되는 아루바의 독보적인 AppRF 기술은 혁신적인 수준의 가시성을 제공합니다. AppRF를 통해 IT는 Facebook, Box 등 주요 웹 기반 애플리케이션을 비롯한 애플리케이션들을 사용자 별로 인식할 수 있습니다.

7200 시리즈는 또한 인증(authentication), 암호화, VPN 연결, IPv4/IPv6 레이어 3 서비스, Aruba Policy Enforcement Firewall™, Aruba Adaptive Radio Management™, Aruba RFProtect™ 스펙트럼 분석 및 WIP(wireless intrusion protection)를 관리합니다.

클러스터링 및 중앙 관리를 통해 극소수의 네트워크 관리자만으로 대규모 네트워크 내부에 수백 대의 모빌리티를 구축할 수 있습니다. 마스터 모빌리티 컨트롤러로 로컬 모빌리티 컨트롤러를 관리할 수 있으며, 이와 동시에 Aruba AirWave™ 네트워크 관리를 통해 실시간 모니터링, 히스토리 리포팅, 트러블슈팅을 실행함으로써 사용자 단말부터 백본까지 네트워크 전반에 대한 명확한 가시성과 예상되는 문제점을 관리자께 정확하게 알려주어 관리의 효율성을 극대화 할 수 있습니다.



전면: 7210/7220/7240



후면: 7210/7220/7240



### HA (HIGH AVAILABILITY) 아키텍처

7200 시리즈는 최고 수준의 가용성이 요구되는 사이트 구축 시에 적합한 다음과 같은 HA 기능들을 제공합니다.

- 이중전원: 7210/7220/7240은 현장 교체가 가능한 이중 전원, 즉 RPS(Redundant Power Supplies)를 지원하여 무중단 네트워크 운영을 보장합니다.
- 다수의 팬과 핫스왑이 가능한 팬 트레이: 7210/7220/7240에는 현장 교체가 가능한 팬 트레이(fan tray)와 여러 개의 팬이 포함되어 있습니다. 이를 통해 충분한 냉각과 신속한 수리가 보장됩니다.
- 안정성 및 업타임 극대화를 위한 SSD(Solid State Drives).
- 7210/7220/7240은 2개의 듀얼-미디어 포트 지원: 고가용성(HA)을 위한 1000BASE-X 또는 10/100/1000BASE-T 연결.



전면: 7205



후면: 7205

PERFORMANCE AND CAPACITY				
Features	7205	7210	7220	7240
Maximum APs (licenses)	256	512	1,024	2,048
Maximum RAPs	256	512	1,024	2,048
Maximum concurrent devices	8,192	16,384	24,576	32,768
VLANs	2,048	4,094	4,094	4,094
Concurrent GRE Tunnels (System BSSIDs)	8,192	8,192	16,384	32,768
Concurrent Tunneled Ports	4,096	8,192	12,288	16,384
Concurrent IPsec sessions	4,096	16,384	24,576	32,768
Concurrent SSL fallback sessions	4,096	8,192	8,192	8,192
Active Firewall Sessions (Concurrent sessions)	1,000,000	2,015,291	2,015,291	2,015,291
Wired Throughput (large packets)	12 Gbps	20 Gbps	40 Gbps	40 Gbps

## SPECIFICATIONS

### Interfaces and indicators

- 7210/7220/7240 has four 10GBASE-X (SFP+) ports
- 7205 has two 10GBASE-X and four dual-media (1000BASE-X or 10/100/1000BASE-T) ports
- One USB 2.0
- Console (RS-232) RJ-45 or mini-USB
- LINK/ACT and status LEDs
- Management/status LEDs
- LCD panel and navigation buttons
- Expansion slot (reserved for future use)

### Dimensions

- 7210, 7220, 7240:
  - (H) 4.4 cm x (W) 44.5 cm x (D) 44.5 cm (1.75" x 17.5" x 17.5")
  - Weight (with one AC power supply installed) 7.45 kg (16.43 lbs)
- 7205:
  - (H) 4.4 cm x (W) 33.4 cm x (D) 44.2 cm (1.75" x 13.13" x 17.38")
  - Weight: 4.95 kg (10.19 lbs)

### Environmental

- Operating temperature range: 0° C to 40° C
- Operating humidity: 5% to 95% non-condensing
- Storage temperature range: -40° C to 70° C
- Storage humidity: 5% to 95%, non-condensing
- Operating altitude: 10,000 feet
- Acoustic noise<sup>3</sup> (with AC power supply):
  - 7210: 46.9 dBA
  - 7220: 46.9 dBA
  - 7240: 54.7 dBA
  - 7205: 49.0 dBA

<sup>3</sup>Sound power per ETSI 300 753 in accordance with ISO 7779

### Power Supply Specifications

- 350-watt AC power supply
  - AC input voltage: 100 VAC to 240 VAC
  - AC input current: 5-2.5A
  - AC input frequency: 50-60 Hz
  - Weight: 2.8 lbs (1.3 kg)
- Maximum power consumption
  - 7210: 110 watts
  - 7220: 125 watts
  - 7240: 165 watts
  - 7205: 75.2 watts

### 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, CB, C-tick, Anatel, NOM, MIC

### Minimum ArubaOS Release

- 7210: 6.2.0.0
- 7220: 6.2.0.0
- 7240: 6.2.0.0
- 7205: 6.4.3.0

### WARRANTY

- Hardware: 1 year parts/labor\*
  - Software: 90 days\*
- \* Extended with support contract

### Regulatory SKU Information

- 7210: ARCN0100
- 7220: ARCN0101
- 7240: ARCN0102
- 7205: ARCN7205

## ORDERING INFORMATION

Part Number	Description
<b>Aruba 7200 Series Mobility Controllers and Accessories</b>	
7205-RW	Aruba 7205, 2x 10GBASE-X (SFP+), Unrestricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan
7205-US	Aruba 7205, 2x 10GBASE-X (SFP+), Restricted Regulatory Domain. For deployment in the United States only.
7205-JP	Aruba 7205, 2x 10GBASE-X (SFP+), Restricted Regulatory Domain. For deployment in Japan only.
7205-IL	Aruba 7205, 2x 10GBASE-X (SFP+), Restricted Regulatory Domain. For deployment in Israel only.
7205-RWF1	Aruba 7205, 2x 10GBASE-X (SFP+), TAA/FIPS compliant. Unrestricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan
7205-USF1	Aruba 7205, 2x 10GBASE-X (SFP+), TAA/FIPS compliant. Restricted Regulatory Domain. For deployment in the United States only.
7205-JPF1	Aruba 7205, 2x 10GBASE-X (SFP+), TAA/FIPS compliant. Restricted Regulatory Domain. For deployment in Japan only.
7205-ILF1	Aruba 7205, 2x 10GBASE-X (SFP+), TAA/FIPS compliant. Restricted Regulatory Domain. For deployment in Israel only.
7210	Aruba 7210 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan
7210-US	Aruba 7210 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. US regulatory domain (for deployments in USA only).
7210DC	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan
7210DC-US	Aruba 7210 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. US regulatory domain (for deployments in USA only).

## ORDERING INFORMATION

Part Number	Description
<b>Aruba 7200 Series Mobility Controllers and Accessories</b>	
7210-F1	Aruba 7210, 4x 10GBase-X (SFP+), 1x 350W AC PS, Unrestricted Regulatory Domain. FIPS & TAA Compliant. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan.
7210-USF1	Aruba 7210, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – US, FIPS & TAA Compliant
7210-IL	Aruba 7210 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted regulatory domain (for deployments in Israel only).
7210DC-IL	Aruba 7210 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted regulatory domain (for deployments in Israel only).
7210-ILF1	Aruba 7210, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – IL FIPS & TAA Compliant
7210-JP	Aruba 7210 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted regulatory domain (for deployments in Japan only).
7210DC-JP	Aruba 7210 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted regulatory domain (for deployments in Japan only).
7210-JPF1	Aruba 7210, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – JP FIPS & TAA Compliant
7220	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan.
7220-US	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. US regulatory domain (for deployments in USA only).
7220DC	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan.
7220DC-US	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. US regulatory domain (for deployments in USA only).
7220-F1	Aruba 7220, 4x 10GBase-X (SFP+), 1x 350W AC PS, Unrestricted Regulatory Domain. FIPS & TAA Compliant. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan.
7220-USF1	Aruba 7220, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – US, FIPS & TAA Compliant
7220-IL	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted regulatory domain (for deployments in Israel only).
7220DC-IL	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted regulatory domain (for deployments in Israel only).
7220-ILF1	Aruba 7220, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – IL FIPS & TAA Compliant
7220-JP	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted regulatory domain (for deployments in Japan only).
7220DC-JP	Aruba 7220 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted regulatory domain (for deployments in Japan only).

## ORDERING INFORMATION

Part Number	Description
<b>Aruba 7200 Series Mobility Controllers and Accessories</b>	
7220-JPF1	Aruba 7220, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – JP FIPS & TAA Compliant
7240	Aruba 7240 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan.
7240-US	Aruba 7240 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. US regulatory domain (for deployments in USA only).
7240DC	Aruba 7240 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan.
7240DC-US	Aruba 7240 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. US regulatory domain (for deployments in USA only).
7240-F1	Aruba 7240, 4x 10GBase-X (SFP+), 1x 350W AC PS, Unrestricted Regulatory Domain. FIPS & TAA Compliant. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel or Japan.
7240-USF1	Aruba 7240, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – US, FIPS & TAA Compliant
7240-IL	Aruba 7240 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted regulatory domain (for deployments in Israel only).
7240DC-IL	Aruba 7240 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted regulatory domain (for deployments in Israel only).
7240-ILF1	Aruba 7240, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – IL FIPS & TAA Compliant
7240-JP	Aruba 7240 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W AC power supply. Restricted regulatory domain (for deployments in Japan only).
7240DC-JP	Aruba 7240 Mobility Controller with 4x 10GBase-x (SFP/SFP+) and 2x dual media (10/100/1000BASE-T or SFP) ports. Includes one 350W DC (-48V DC) power supply. Restricted regulatory domain (for deployments in Japan only).
7240-JPF1	Aruba 7240, 4x 10GBase-X (SFP+), 1x 350W AC PS, Restricted Regulatory Domain – JP FIPS & TAA Compliant
PSU-350-AC	350W AC Power Supply. May be used as a redundant power supply or field-replaceable spare for 7200 Series, S3500-24T, S3500-48T and S3500-24F. Power cord not included- order country-specific (PC-AC-xx) power cord.
PSU-350-DC	350W DC (-48V DC) Power Supply. May be used as a redundant power supply or field-replaceable spare for 7200 Series Mobility Controllers.

## ORDERING INFORMATION

Part Number	Description
<b>Aruba Mobility Controller Pluggable Transceivers</b>	
SFP-LX	1000BASE-LX SFP; 1310nm pluggable GbE optic; LC connector; up to 10,000 meters over single-mode fiber
SFP-SX	1000BASE-SX SFP; 850nm pluggable GbE optic; LC connector; up to 270 meters over multi-mode fiber (Type FDDI/OM1) and up to 550 meters over multi-mode fiber (Type OM2)
SFP-TX	1000BASE-T SFP; copper GbE pluggable; RJ45 connector; up to 100 meters over Category-5, 5e, 6 and 6a unshielded twisted pair cable
SFP-10GE-LRM	10GBASE-LRM SFP+; 1310nm pluggable 10GbE optic; LC connector; up to 220 meters over multi-mode fiber (Type FDDI/OM1/OM2)
SFP-10GE-SR	10GBASE-SR SFP+; 850nm pluggable 10GbE optic; LC connector; up to 300 meters over multi-mode fiber (Type OM3) or 400 meters with OM4
SFP-10GE-LR	10GBASE-LR SFP+; 1310nm pluggable 10GbE optic; LC connector; up to 10,000 meters over single-mode fiber
DAC-SFP-10GE-50CM	50cm length, 10GbE SFP+ direct attach cable (DAC); copper Twinax connectors on both ends for ArubaStack or interconnect between devices. For use with 7200, S2500 and S3500 10GbE ports only and S1500 1GbE Ports (requires ArubaOS 7.4).
DAC-SFP-10GE-1M	1m length, 10GbE SFP+ direct attach cable (DAC); copper Twinax connectors on both ends for ArubaStack or interconnect between devices. For use with 7200, S2500 and S3500 10GbE ports only and S1500 1GbE Ports (requires ArubaOS 7.4).
DAC-SFP-10GE-3M	3m length, 10GbE SFP+ direct attach cable (DAC); copper Twinax connectors on both ends for ArubaStack or interconnect between devices. For use with 7200, S2500 and S3500 10GbE ports only and S1500 1GbE Ports (requires ArubaOS 7.4).
DAC-SFP-10GE-5M	5m length, 10GbE SFP+ direct attach cable (DAC); copper Twinax connectors on both ends for ArubaStack or interconnect between devices. For use with 7200, S2500 and S3500 10GbE ports only and S1500 1GbE Ports (requires ArubaOS 7.4).
DAC-SFP-10GE-7M	7m length, 10GbE SFP+ direct attach cable (DAC); copper Twinax connectors on both ends for ArubaStack or interconnect between devices. For use with 7200, S2500 and S3500 10GbE ports only and S1500 1GbE Ports (requires ArubaOS 7.4).
XFP-LR	Aruba XFP - 1310nm serial pluggable XFP optic (LC) for up to 10km over SMF (used in M3 only)
XFP-SR	Aruba XFP - 850nm serial pluggable XFP optic (LC), target range 300m over MMF (used in M3 only)



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