

DATA SHEET

# ARUBA 7200 SERIES MOBILITY CONTROLLERS

The Aruba 7200 series Mobility Controller is the next-generation networking platform, optimized for mobile application delivery to ensure the best mobility experience over Wi-Fi.

With a new central processor that employs up to eight cores with four threads each, it's like having a total of 32 virtual CPUs. As a result, the 7200 series supports up to 32,000 mobile devices and performs stateful firewall policy enforcement at 40 Gbps – plenty of capacity and speed for BYOD and 802.11ac devices.

New levels of visibility are provided by Aruba's unique AppRF technology, which runs on 7200 series Mobility Controllers. With AppRF, IT can see applications by user, including top web-based applications like Facebook and Box.

The 7200 series also manages authentication, encryption, VPN connections, IPv4 and IPv6 Layer 3 services, the Aruba Policy Enforcement Firewall™, Aruba Adaptive Radio Management™, and Aruba RFProtect™ spectrum analysis and wireless intrusion protection.

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 Aruba AirWave™ network management provides enterprise-wide clarity and control through real-time monitoring, historical reporting and troubleshooting.



## ARCHITECTED FOR HIGH AVAILABILITY

The 7200 series includes a number of features that make it ideal for deployment in customer locations that require maximum availability:

- Hot-swappable redundant power supplies: The 7210/7220/7240 supports dual, field-replaceable redundant power supplies to maintain uninterrupted network operations.
- Hot-swappable fan tray with multiple fans: The 7210/7220/7240 includes a field-replaceable fan tray with multiple fans, providing sufficient cooling and rapid time to repair.
- The 7210/7220/7240 support two dual-media ports: 1000BASE-X or 10/100/1000BASE-T connections for high availability.



Front: 7210/7220/7240



Front: 7205



Back: 7210/7220/7240



Back: 7205

<b>PERFORMANCE AND CAPACITY</b>				
<b>Features</b>	<b>7205</b>	<b>7210</b>	<b>7220</b>	<b>7240</b>
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)