

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 twenty cores with four threads each, it's like having a total of 80 virtual CPUs. As a result, the 7200 series supports up to 32,768 mobile devices and performs stateful firewall policy enforcement at 100 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 7210/7220/7240/7240XM/7280 supports dual, field-replaceable redundant power supplies to maintain uninterrupted network operations.
- Hot-swappable fan tray with multiple fans: The 7210/7220/7240/7240XM/7280 includes field-replaceable fan trays, providing sufficient cooling and rapid time to repair.
- The 7210/7220/7240/7240XM has four 10GBASE-X (SFP+) ports connections for high availability.
- The 7280 support two 40GbE ports and eight 10GbE ports for high performance and availability.



Front: 7205



Back: 7205



Front: 7210/7220/7240/7240XM



Back: 7210/7220/7240/7240XM



Front: 7280



Back: 7280

PERFORMANCE AND CAPACITY					
Features	7205	7210	7220	7240/7240XM	7280
Maximum APs (licenses)	256	512	1,024	2,048	2,048
Maximum RAPs	256	512	1,024	2,048	2,048
Maximum concurrent devices	8,192	16,384	24,576	32,768	32,768
VLANs	4,094	4,094	4,094	4,094	4,094
Concurrent GRE Tunnels (System BSSIDs)	4,096	8,192	16,384	32,768	32,768
Concurrent Tunneled Ports	4,096	8,192	12,288	16,384	16,384
Concurrent IPsec sessions	8,192	16,384	24,576	32,768	32,768
Concurrent SSL fallback sessions	4,096	8,192	8,192	8,192	8,192
Active Firewall Sessions (Concurrent sessions)	1,000,000	2,015,291	2,015,291	2,015,291	2,015,291
Wired Throughput (large packets)	12 Gbps	20 Gbps	40 Gbps	40 Gbps	100 Gbps

SPECIFICATIONS

Interfaces and indicators

- 7280 has eight 10GBASE-X (SFP+) and two 40G QSFP+ ports
- 7210/7220/7240/7240XM 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 (Two on the 7205)
- Console (RS-232) RJ-45 or mini-USB (micro-USB on 7205/7280)
- LINK/ACT and status LEDs
- Management/status LEDs
- LCD panel and navigation buttons
- Expansion slot (reserved for future use)

Dimensions

- 7280:
 - (H) 4.4 cm x (W) 44.2 cm x (D) 40.1 cm (1.73" x 17.40" x 15.79")
 - Weight: 7.9 kg (17.41 lbs)
- 7210, 7220, 7240, 7240XM:
 - (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) 44.2 cm x (D) 33.4 cm (1.75" x 17.38" x 13.13")
 - Weight: 4.95 kg (10.19 lbs)

Environmental

- Operating temperature range: 0° C to 40° C
- Humidity:
 - 7205: 10% to 95%, non-condensing

- 7210, 7220, 7240, 7240XM, 7280: 5% to 95%, non-condensing
- Storage temperature range: -40° C to 70° C
- Operating altitude: 10,000 feet
- Acoustic noise* (with AC power supply):
 - 7280: 47.1 dBA
 - 7240/7240XM: 52.9 dBA
 - 7220: 52.9 dBA
 - 7210: 52.9 dBA
 - 7205: 49.0 dBA

*Sound power per ETSI 300 753 in accordance with ISO 7779

Power Supply Specifications

- 550-watt AC power supply (7280 Only)
 - AC input voltage: 100 VAC to 240 VAC
 - AC input current: 7.1 - 3.4A
 - AC input frequency: 50-60 Hz
 - Weight: 0.87 kg (1.9 lbs)
- 350-watt AC power supply (7210/7220/7240/7240XM)
 - AC input voltage: 100 VAC to 240 VAC
 - AC input current: 5-2.5A
 - AC input frequency: 50-60 Hz
 - Weight: 1.3 kg (2.8 lbs)
- Maximum power consumption
 - 7280: 240 watts
 - 7240/7240XM: 165 watts
 - 7220: 125 watts
 - 7210: 110 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

Regulatory SKU Information

- 7280: ARCN7280
- 7240/7240XM: ARCN0102
- 7220: ARCN0101
- 7210: ARCN0100
- 7205: ARCN7205

Minimum ArubaOS Release

- 7280: 6.5.4.0 or 8.3.0.0
- 7240: 6.2.0.0
- 7240XM: 6.4.4.0
- 7220: 6.2.0.0
- 7210: 6.2.0.0
- 7205: 6.4.3.0

Warranty

- Hardware: 1 year parts/labor*
- Software: 90 days*

* Extended with support contract

ORDERING INFORMATION

Part Number	Description
Aruba 7280 Series Mobility Controllers	
JX910A	Aruba 7280 (US) 2x40GbE and 8x10GBASE-X (SFP+) Controller
JX911A	Aruba 7280 (RW) 2x40GbE and 8x10GBASE-X (SFP+) Controller
JX912A	Aruba 7280 (JP) 2x40GbE and 8x10GBASE-X (SFP+) Controller
JX913A	Aruba 7280 (IL) 2x40GbE and 8x10GBASE-X (SFP+) Controller
JX914A	Aruba 7280 (US) FIPS/TAA-compliant 2x40GbE and 8x10GBASE-X (SFP+) Controller
JX915A	Aruba 7280 (RW) FIPS/TAA-compliant 2x40GbE and 8x10GBASE-X (SFP+) Controller
JX916A	Aruba 7280 (JP) FIPS/TAA-compliant 2x40GbE and 8x10GBASE-X (SFP+) Controller
JX917A	Aruba 7280 (IL) FIPS/TAA-compliant 2x40GbE and 8x10GBASE-X (SFP+) Controller
JZ077A	Aruba 7280 (EG) 2x40GbE and 8x10GBASE-X (SFP+) Controller
JZ078A	Aruba 7280 (EG) FIPS/TAA-compliant 2x40GbE and 8x10GBASE-X (SFP+) Controller
Aruba 7240/7240XM Series Mobility Controllers	
JW761A	Aruba 7240 (RW) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW762A	Aruba 7240 (US) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP)
JW764A	Aruba 7240 (IL) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP)
JW766A	Aruba 7240 (JP) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP)
JW784A	Aruba 7240XM (US) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW830A	Aruba 7240XM (US) FIPS/TAA 16GB DRAM 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JY854A	Aruba 7240XM (EG) 4x 10GBase-x SFP/SFP+ Controller
JW675A	Aruba 7240XMDC (US) 16GB DRAM 4p 10GBase-X /SFP+ 2p Dual Pers (10/100/1000 or SFP) DC Pwr Cntrlr
JW783A	Aruba 7240XM (RW) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW829A	Aruba 7240XM (RW) FIPS/TAA 16GB DRAM 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW674A	Aruba 7240XMDC (RW) 16GB DRAM 4p 10GBase-X /SFP+ 2p Dual Pers (10/100/1000 or SFP) DC Pwr Cntrlr
JW786A	Aruba 7240XM (IL) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW832A	Aruba 7240XM (IL) FIPS/TAA 16GB DRAM 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW677A	Aruba 7240XMDC (IL) 16GB DRAM 4p 10GBase-X /SFP+ 2p Dual Pers (10/100/1000 or SFP) DC Pwr Cntrlr

ORDERING INFORMATION	
Part Number	Description
Aruba 7240/7240XM Series Mobility Controllers (continued)	
JW785A	Aruba 7240XM (JP) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW831A	Aruba 7240XM (JP) FIPS/TAA 16GB DRAM 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW676A	Aruba 7240XMDC (JP) 16GB DRAM 4p 10GBase-X /SFP+ 2p Dual Pers (10/100/1000 or SFP) DC Pwr Cntrlr
Aruba 7220 Series Mobility Controllers	
JW751A	Aruba 7220 (RW) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW752A	Aruba 7220 (US) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW649A	Aruba 7220DC (RW) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) 350W DC Pwr Cntrlr
JW650A	Aruba 7220DC (US) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) 350W DC Pwr Cntrlr
JW753A	Aruba 7220 (RW) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW754A	Aruba 7220 (US) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP)
JW755A	Aruba 7220 (IL) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW651A	Aruba 7220DC (IL) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) 350W DC Pwr Cntrlr
JW756A	Aruba 7220 (IL) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP)
JW757A	Aruba 7220 (JP) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW652A	Aruba 7220DC (JP) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) 350W DC Pwr Cntrlr
JW758A	Aruba 7220 (JP) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP)
Aruba 7210 Series Mobility Controllers	
JW743A	Aruba 7210 (RW) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW744A	Aruba 7210 (US) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JY853A	Aruba 7210 (EG) 4x 10GBase-x SFP/SFP+ Controller
JW645A	Aruba 7210DC (RW) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) 350W DC Pwr Cntrlr
JW646A	Aruba 7210DC (US) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) 350W DC Pwr Cntrlr
JW745A	Aruba 7210 (RW) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW746A	Aruba 7210 (US) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW747A	Aruba 7210 (IL) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW647A	Aruba 7210DC (IL) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) 350W DC Pwr Cntrlr
JW748A	Aruba 7210 (IL) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP)
JW749A	Aruba 7210 (JP) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
JW648A	Aruba 7210DC (JP) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) 350W DC Pwr Cntrlr
JW750A	Aruba 7210 (JP) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller
Aruba 7205 Series Mobility Controllers	
JW735A	Aruba 7205 (RW) 2-port 10GBASE-X (SFP+) Controller
JW736A	Aruba 7205 (US) 2-port 10GBASE-X (SFP+) Controller
JW737A	Aruba 7205 (JP) 2-port 10GBASE-X (SFP+) Controller
JY852A	Aruba 7205 (EG) 2x 10GBASE-X SFP+ Controller
JW738A	Aruba VMC-TACT8 (IL) FIPS/TAA-compliant 8 AP and 64 ACR Sessions Virtual Mobility
JW739A	Aruba 7205 (RW) FIPS/TAA-compliant 2-port 10GBASE-X (SFP+) Controller
JW740A	Aruba 7205 (US) FIPS/TAA-compliant 2-port 10GBASE-X (SFP+) Controller
JW741A	Aruba 7205 (JP) FIPS/TAA-compliant 2-port 10GBASE-X (SFP+) Controller
JW742A	Aruba 7205 (IL) FIPS/TAA-compliant 2-port 10GBASE-X (SFP+) Controller

ORDERING INFORMATION

Part Number	Description
Aruba 7240 to 7240XM Upgrades Series Mobility	
JW834A	Aruba 7240XM (US) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Cntrlr 16GB Upgrade
JW838A	Aruba 7240XM (US) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Cntrlr 16GB Upgrade
JW842A	Aruba 7240XMDC (US) 4p 10GBase-X/SFP+ 2p Dual Pers (10/100/1000 or SFP) DC Pwr Cntrlr 16GB Upgrade
JW833A	Aruba 7240XM (RW) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Cntrlr 16GB Upgrade
JW837A	Aruba 7240XM (RW) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Cntrlr 16GB Upgrade
JW841A	Aruba 7240XMDC (RW) 4p 10GBase-X/SFP+ 2p Dual Pers (10/100/1000 or SFP) DC Pwr Cntrlr 16GB Upgrade
JW836A	Aruba 7240XM (IL) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Cntrlr 16GB Upgrade
JW840A	Aruba 7240XM (IL) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Cntrlr 16GB Upgrade
JW844A	Aruba 7240XMDC (IL) 4p 10GBase-X/SFP+ 2p Dual Pers (10/100/1000 or SFP) DC Pwr Cntrlr 16GB Upgrade
JW835A	Aruba 7240XM (JP) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Cntrlr 16GB Upgrade
JW839A	Aruba 7240XM (JP) FIPS/TAA 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Cntrlr 16GB Upgrade
JW843A	Aruba 7240XMDC (JP) 4p 10GBase-X/SFP+ 2p Dual Pers (10/100/1000 or SFP) DC Pwr Cntrlr 16GB Upgrade
Aruba 7280 Redundant Power Supply and Fan Tray	
JZ012A	PSU-550-AC 550W AC Power Supply
JZ013A	Aruba HW-7280-FT 7280 Series Fan Tray
Aruba 7210/20/40 Redundant Power Supplies and Fan Tray	
JW657A	Aruba PSU-350-AC 7200 Series S3500-24T S3500-48T and S3500-24F 350W AC Power Supply
JW658A	Aruba PSU-350-DC 7200 Series Mobility Controllers 350W DC (-48V DC) Power Supply
JW111A	Aruba HW-7200-FT 7200 Series Fan Tray
Aruba 7280 Series 40 GbE Transceivers and DAC Cables	
JH231A	HPE X142 40G QSFP+ MPO SR4 Transceiver
JH232A	HPE X142 40G QSFP+ LC LR4 SM Transceiver
JH233A	HPE X142 40G QSFP+ MPO eSR4 300M XCVR
JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable
JH235A	HPE X242 40G QSFP+ to QSFP+ 3m DAC Cable
JH236A	HPE X242 40G QSFP+ to QSFP+ 5m DAC Cable
JH678A	HPE X140 40G QSFP+ LC BiDi 100m MM C-TRX
JG329A	HPE X240 QSFP+ 4x10G SFP+ 1m DAC Cable
JH700A	HPE X240 QSFP+ 4x10G SFP+ 3m DAC C-Cable
JG331A	HPE X240 QSFP+ 4x10G SFP+ 5m DAC Cable
Aruba 7200 Series 10 GbE Transceivers and DAC Cables	
JW090A	SFP-10GE-LRM 10GBASE-LRM SFP+ 1310nm LC Connector Pluggable 10GbE XCVR
JW091A	SFP-10GE-SR 10GBASE-SR SFP+ 850nm Pluggable LC Connector 10GbE XCVR
JW092A	SFP-10GE-LR 10GBASE-LR SFP+ 1310nm Pluggable LC Connector 10GbE XCVR
JW100A	DAC-SFP-10GE-50CM 50cm10GbE SFP+ Twinax Connectors Direct Attach Cable
JW101A	DAC-SFP-10GE-1M 1m 10GbE SFP+ Twinax Connectors Direct Attach Cable
JW102A	DAC-SFP-10GE-3M 3m 10GbE SFP+ Twinax Connectors Direct Attach Cable
JW103A	DAC-SFP-10GE-5M 5m 10GbE SFP+ Twinax Connectors Direct Attach Cable
JW104A	DAC-SFP-10GE-7M 7m 10GbE SFP+ Twinax Connectors Direct Attach Cable

ORDERING INFORMATION

Part Number	Description
Aruba 7200 Series 1 GbE Transceivers	
JW087A	SFP-LX 1000BASE-LX SFP 1310nm LC Connector Pluggable GbE XCVR
JW088A	SFP-SX 1000BASE-SX SFP 850nm LC Connector Pluggable GbE XCVR
JW089A	SFP-TX 1000BASE-T SFP Copper GbE RJ45 Connector Pluggable XCVR
OPTIONAL WALL MOUNT BRACKET	
Aruba 7205/7280 Series Mobility Controllers	
JW083A	Aruba SPR-WL2-MNT S2500 Wall/Rack Mnt
Aruba 7210/7220/7240/7240XM Series Mobility Controllers	
JW109A	Aruba SPR-WL-MNT S3500 Wall Rk Mount



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