DATA SHEET

ARUBA 7000 SERIES MOBILITY CONTROLLERS
Improved network performance, visibility, and control

Aruba 7000 Series Mobility Controllers enhance WLAN performance by centralizing all control functionality for individual Aruba access points (APs) to improve AP utilization and client roaming. Ideally suited for midsize campuses and branches, the 7000 Series can be deployed using Zero Touch Provisioning (ZTP) to simplify deployment.

SIMPLE AND SECURE ACCESS

The 7000 Series serves a key role in Dynamic Segmentation, providing Aruba’s Policy Enforcement Firewall (PEF) to enforce policies based on user role, device type, application, and network location - and simplifying and securing wired and wireless network access. Traffic is encapsulated in GRE tunnels for complete encryption all the way from an AP or switch. This feature can be enabled with the ArubaOS PEF license and eliminates the need to manually configure SSIDs, VLANs or ACLs for each new client on the network.

The 7000 Series runs the ArubaOS network operating system and manages up to 4,096 concurrent users, 64 access points and include up to 24 Ethernet ports and multiple WAN uplinks. With 8 Gbps of maximum throughput to perform stateful firewall policy enforcement, the controller delivers plenty of horsepower for the most demanding enterprise environments.

24/7 MISSION-CRITICAL NETWORKING

Aruba’s unique patented wireless technologies are based on AI-powered machine learning algorithms and integrated directly into ArubaOS. Adaptive Radio Management, AirMatch and ClientMatch (now enhanced with Wi-Fi 6 grouping) provide RF optimization techniques to improve user experience and network health based on changing environmental conditions, correct for noisy or congested RF and resolve sticky client issues during user roaming. RFProtect provides advanced spectrum analysis and wireless intrusion protection (WIPS/WIDS) to help identify and mitigate Wi-Fi and non-Wi-Fi sources of interference, as well as containment of potential security risks. Learn more about Aruba’s software features on the ArubaOS datasheet.

KEY FEATURES

- Support for new Wi-Fi 6 (802.11ax), WPA3 and Enhanced Open – and existing standards
- Patented ClientMatch technology can now group together Wi-Fi 6 capable devices
- Dynamic Segmentation enforces wired and wireless access policies to simplify and secure the network
- Application awareness for 3,000+ applications without additional hardware
- Built-in AI-powered wireless/RF optimization
- 8 Gbps of maximum firewall throughput

When deployed with Aruba Mobility Master, the 7000 Series can be joined to a controller cluster to increase scale, improve reliability using High Availability (HA), adopt configurations seamlessly based on hierarchy, support Live Upgrades to reduce maintenance windows, and share licenses from a global licensing pool. The 7000 Series also serves a key policy enforcement role in Aruba’s 360 Secure Fabric. Aruba AirWave provides real-time monitoring, reporting and Wi-Fi planning and visibility services.
MICROSOFT FEATURES
Aruba's integration with Microsoft enables unique application intelligence that detects Office 365, Teams and Skype for Business traffic and then prioritizes them over less critical applications. Through management interfaces on ArubaOS, Aruba Central, and Aruba AirWave, IT can visualize call quality metrics such as MOS, latency, jitter, and packet loss for additional insight.

ENHANCED CAPABILITIES
Wi-Fi 6 (802.11ax) enhanced with ClientMatch
The latest Wi-Fi standard brings enhanced performance, speed, and efficiency with key features such as OFDMA, 1024-QAM, and bidirectional MU-MIMO. Combined with Aruba's patented ClientMatch technology, 802.11ax clients will now be grouped together to optimize the multi-user experience.

Enhanced wireless security
Support for WPA3 brings stronger encryption and authentication methods, while Enhanced Open brings automatic security to open networks. New WPA2-MPSK feature enables simpler passkey management for WPA2 devices – should the Wi-Fi password on one device need to be changed, no additional key changes are needed for other devices on the network.

Dynamic Segmentation
To simplify and better secure wired and wireless network access, the 7000 Series can enforce per-user and device roles across wired and wireless networks by integrating with ClearPass Policy Manager. This ensures consistent policy regardless of user role and device type, and eliminates the need to configure unnecessary SSIDs, ACLs, VLANs and subnets at every node in the network.

Policy Enforcement Firewall
Enabled by the PEF license, wired and wireless user and application traffic can be tunneled to a stateful firewall on the 7000 Series through GRE tunnels for inspection. Policies are then enforced based on user role, device type, application and location - as described in Dynamic Segmentation.

Application visibility and control
As part of the PEF license, application visibility with Deep Packet Inspection (DPI) technology evaluates and optimizes performance and Quality of Service policies for over 3,000 applications - even for encrypted or hidden traffic.

Web content filtering
WebCC is an add-on subscription-based feature that classifies websites by content category and rates them by reputation. It can also block, apply QoS, bandwidth-limit, mirror, and log web content.

Unified Communications and Collaboration (UCC) Dashboard
Visualize and troubleshoot networks based on call quality metrics such as MOS, latency, jitter and packet loss. Supported applications include: Skype for Business®, Wi-Fi Calling, Facetime, SIP, Jabber, Spark and more.

Zero Touch Provisioning
The 7000 Series can be factory-shipped and deployed onsite with cloud-based Aruba Activate. For network-specific requirements, settings can be applied based on hierarchical configuration.

Integrated VPN services
With support for IPSec/SSL VPNs, Aruba remote APs (RAPs) and Aruba VIA VPN users can establish encrypted sessions without any additional hardware required.

Third-party security integration
For advanced malware or antivirus protection, the 7000 Series can assume the role of an on-premises agent of centrally-hosted firewalls such as those provided by Palo Alto Networks and Check Point Software. Dedicated firewall appliances are no longer needed at each branch.
## PERFORMANCE AND CAPACITY

<table>
<thead>
<tr>
<th>Features</th>
<th>7005</th>
<th>7008</th>
<th>7010</th>
<th>7024</th>
<th>7030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum campus or remote AP licenses</td>
<td>16</td>
<td>16</td>
<td>32</td>
<td>32</td>
<td>64</td>
</tr>
<tr>
<td>Maximum concurrent users/devices</td>
<td>1,024</td>
<td>1,024</td>
<td>2,048</td>
<td>2,048</td>
<td>4,096</td>
</tr>
<tr>
<td>Maximum VLANs</td>
<td>4,096</td>
<td>4,096</td>
<td>4,096</td>
<td>4,096</td>
<td>4,096</td>
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<tr>
<td>Active firewall sessions</td>
<td>16,384</td>
<td>16,384</td>
<td>32,768</td>
<td>32,768</td>
<td>65,536</td>
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<tr>
<td>Concurrent GRE tunnels</td>
<td>256</td>
<td>256</td>
<td>512</td>
<td>512</td>
<td>1,024</td>
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<tr>
<td>Concurrent IPsec sessions</td>
<td>1,024</td>
<td>1,024</td>
<td>2,048</td>
<td>2,048</td>
<td>4,096</td>
</tr>
<tr>
<td>Concurrent SSL sessions</td>
<td>1,024</td>
<td>1,024</td>
<td>2,048</td>
<td>2,048</td>
<td>4,096</td>
</tr>
<tr>
<td>Firewall throughput (Gbps)</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Wired Bridged Throughput (Gbps)</td>
<td>4</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Encrypted throughput 3DES (Gbps)</td>
<td>1.2</td>
<td>1.2</td>
<td>2.4</td>
<td>2.4</td>
<td>2.4</td>
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<tr>
<td>Encrypted throughput AES-CBC-256 (Gbps)</td>
<td>1.3</td>
<td>1.3</td>
<td>2.6</td>
<td>2.6</td>
<td>2.6</td>
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<tr>
<td>Encrypted throughput AES-CCM (Gbps)</td>
<td>1.9</td>
<td>2.2</td>
<td>3.5</td>
<td>3.5</td>
<td>4.0</td>
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<tr>
<td>Encrypted throughput AES-GCM-256 (Gbps)</td>
<td>1.7</td>
<td>1.7</td>
<td>3.4</td>
<td>3.4</td>
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## INTERFACES AND INDICATORS

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<tbody>
<tr>
<td>Form factor/footprint</td>
<td>Desktop/fanless</td>
<td>Desktop/fanless</td>
<td>1xRU</td>
<td>1xRU</td>
<td>1xRU</td>
</tr>
<tr>
<td>10/100/1000BASE-T</td>
<td>4</td>
<td>8</td>
<td>16</td>
<td>24</td>
<td>8 (combo)</td>
</tr>
<tr>
<td>1000BASE-X</td>
<td>–</td>
<td>–</td>
<td>2xSFP</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>10G Ports (10G or 1G supported)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>2xSFP+</td>
<td>–</td>
</tr>
<tr>
<td>USB 2.0</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Management/status LEDs</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>LINK/ACT and status LEDs</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>LCD panel and navigation buttons</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Console port</td>
<td>mini USB, RJ-45</td>
<td>RJ-45</td>
<td>mini USB, RJ-45</td>
<td>micro USB, RJ-45</td>
<td>mini USB, RJ-45</td>
</tr>
<tr>
<td>Out-of-band management port</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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### POWER OVER ETHERNET (PoE) SUPPORT

<table>
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<tbody>
<tr>
<td>PoE(^1) Role/Mode</td>
<td>Powered Device (PD)</td>
<td>Power Source Equipment (PSE)</td>
<td>PSE</td>
<td>PSE</td>
<td>–</td>
</tr>
<tr>
<td>PoE In or Out</td>
<td>In – Port 0</td>
<td>Out</td>
<td>Out</td>
<td>Out</td>
<td>–</td>
</tr>
<tr>
<td>Max concurrent of PoE Ports</td>
<td>–</td>
<td>8</td>
<td>12</td>
<td>24</td>
<td>–</td>
</tr>
<tr>
<td>Max(^2) concurrent PoE+ Ports</td>
<td>–</td>
<td>8</td>
<td>12</td>
<td>24</td>
<td>–</td>
</tr>
<tr>
<td>PoE Power Budget</td>
<td>–</td>
<td>100W</td>
<td>150W</td>
<td>400W</td>
<td>–</td>
</tr>
</tbody>
</table>

\(^1\) PoE: 802.3af, up to 15.4W from the PSE and up to 12.95W at the PD, not to exceed the total PoE Power Budget.

\(^2\) PoE+: 802.3at, up to 30W per port from the PSE and up to 25.5W at the PD, not to exceed the total PoE Power Budget.

### PHYSICAL

<table>
<thead>
<tr>
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<th>7008</th>
<th>7010</th>
<th>7024</th>
<th>7030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>4.1 cm x 20 cm x 20 cm (1.6” x 7.9” x 7.9”)</td>
<td>4.2 cm x 20.32 cm x 20.32 cm (1.65” x 8.0” x 8.0”)</td>
<td>4.42 cm x 31.75 cm x 33.7 cm (1.74” x 12.75” x 13.3”)</td>
<td>4.37 cm x 44.2 cm x 31.3 cm (1.72” x 17.4” x 12.32”)</td>
<td>4.4 cm x 30.5 cm x 21.1 cm (1.7” x 12” x 8.3”)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.92 kg (2.03 lbs)</td>
<td>1.0 kg (2.2 lbs)</td>
<td>3.4 kg (7.5 lbs)</td>
<td>5.127 kg (11.3 lbs)</td>
<td>2.06 kg (4.54 lbs)</td>
</tr>
<tr>
<td>MTBF (hours, @ 40C)</td>
<td>323,896</td>
<td>300,000</td>
<td>232,843</td>
<td>311,901</td>
<td>390,679</td>
</tr>
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### ENVIRONMENTAL RANGE

<table>
<thead>
<tr>
<th>Specification</th>
<th>7005</th>
<th>7008</th>
<th>7010</th>
<th>7024</th>
<th>7030</th>
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</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>0° C to 40° C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40° C to 70° C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humidity/Storage Humidity</td>
<td>5% to 95%, NC</td>
<td>5% to 95%, NC</td>
<td>5% to 95%, NC</td>
<td>10% to 95%, NC</td>
<td>5% to 95%, NC</td>
</tr>
<tr>
<td>Operating Altitude</td>
<td>10,000 feet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acoustic noise(^3)</td>
<td>0 dBA (fanless)</td>
<td>0 dBA (fanless)</td>
<td>39.8 – 58.6 dBA</td>
<td>34.3 – 71.2 dBA</td>
<td>29.1 – 57.4 dBA</td>
</tr>
<tr>
<td>Maximum Heat Dissipation (BTU/hour)</td>
<td>51.18</td>
<td>430</td>
<td>300</td>
<td>1842</td>
<td>168</td>
</tr>
<tr>
<td>Maximum power consumption</td>
<td>16.6W (with USB)</td>
<td>126W (with PoE)</td>
<td>190W (with PoE)</td>
<td>450W (with PoE)</td>
<td>55W</td>
</tr>
<tr>
<td>Power Source</td>
<td>PoE or 12v - 30W</td>
<td>internal power supply</td>
<td>internal power supply</td>
<td>internal power supply</td>
<td>internal power supply</td>
</tr>
</tbody>
</table>

\(^3\) Sound power per ETSI 300 753 in accordance with ISO 7779
**POWER ADAPTER AND SUPPLY SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Features</th>
<th>12v - 30W</th>
<th>150-watt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage range</td>
<td>90 VAC to 264 VAC</td>
<td>90 VAC to 264 VAC</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>+12VDC, 4A</td>
<td>54VDC, 2.78A</td>
</tr>
<tr>
<td>Input frequency</td>
<td>47.63 Hz</td>
<td>47.63 Hz</td>
</tr>
<tr>
<td>AC line input current (steady state)</td>
<td>1.0A</td>
<td>2.0A</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-0o to +40o C</td>
<td>-0o to +40o C</td>
</tr>
<tr>
<td>Cooling</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Weight</td>
<td>.24 kg (.53 lbs)</td>
<td>.72 kg (1.58 lbs)</td>
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**REGULATORY AND SAFETY COMPLIANCE**

<table>
<thead>
<tr>
<th>Features</th>
<th>7005</th>
<th>7008</th>
<th>7010</th>
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<th>7030</th>
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<tr>
<td>Regulatory SKU information</td>
<td>ARCN01014</td>
<td>ARCN7008</td>
<td>ARCN0103</td>
<td>ARCN7024</td>
<td>ARCN7030</td>
</tr>
<tr>
<td>Minimum ArubaOS Release</td>
<td>6.4.1.0</td>
<td>6.5.0.0</td>
<td>6.4.1.0</td>
<td>6.4.3.0</td>
<td>6.4.1.0</td>
</tr>
<tr>
<td>Electromagnetic emissions certifications</td>
<td>FCC Part 15 Class B CE AS/NZS CISPR22 Class B</td>
<td>CISPR22 Class A (7010, 7024, 7030), Class B (7005)</td>
<td>EN55022 Class A (7010, 7024, 7030), Class B (7005)</td>
<td>ICES-003 Class A (7010, 7024, 7030), Class B (7005)</td>
<td>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</td>
</tr>
<tr>
<td>Telco</td>
<td>Common Language Equipment Identifier (CLEI) Code</td>
<td></td>
<td></td>
<td></td>
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**SERVICE AND WARRANTY INFORMATION**

- Hardware: 1 year parts/labor, can be extended with support contract
- Software: 90 days, can be extended with support contract
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>JW633A</td>
<td>Aruba 7005 (RW) 4-port 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
</tr>
<tr>
<td>JW634A</td>
<td>Aruba 7005 (US) 4-port 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
</tr>
<tr>
<td>JW635A</td>
<td>Aruba 7005 (RW) FIPS/TAA-compliant 4-port 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
</tr>
<tr>
<td>JW636A</td>
<td>Aruba 7005 (US) FIPS/TAA-compliant 4-port 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<tr>
<td>JW637A</td>
<td>Aruba 7005 (IL) 4-port 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
</tr>
<tr>
<td>JW638A</td>
<td>Aruba 7005 (IL) FIPS/TAA-compliant 4-port 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
</tr>
<tr>
<td>JW639A</td>
<td>Aruba 7005 (JP) 4-port 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
</tr>
<tr>
<td>JW640A</td>
<td>Aruba 7005 (JP) FIPS/TAA-compliant 4-port 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<tr>
<td>JY849A</td>
<td>Aruba 7005 (EG) 4x 10/100/1000BASE-T Ports 16 AP Branch Controller</td>
</tr>
<tr>
<td>JX925A</td>
<td>Aruba 7008 (IL) 8p 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
</tr>
<tr>
<td>JX926A</td>
<td>Aruba 7008 (JP) 8p 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<td>JX927A</td>
<td>Aruba 7008 (RW) 8p 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<tr>
<td>JX928A</td>
<td>Aruba 7008 (US) 8p 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<tr>
<td>JX929A</td>
<td>Aruba 7008 (IL) FIPS/TAA 8p 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<tr>
<td>JX930A</td>
<td>Aruba 7008 (JP) FIPS/TAA 8p 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<tr>
<td>JX931A</td>
<td>Aruba 7008 (RW) FIPS/TAA 8p 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<td>JX932A</td>
<td>Aruba 7008 (US) FIPS/TAA 8p 100W PoE+ 10/100/1000BASE-T 16 AP and 1K Client Controller</td>
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<tr>
<td>JW678A</td>
<td>Aruba 7010 (RW) 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP 32 AP and 2K Clients Controller</td>
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<tr>
<td>JW679A</td>
<td>Aruba 7010 (US) 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP 32 AP and 2K Clients Controller</td>
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<tr>
<td>JW680A</td>
<td>Aruba 7010(IL) 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP 32 for AP and 2K Clients Controller</td>
</tr>
<tr>
<td>JW681A</td>
<td>Aruba 7010 (JP) 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP for 32 AP and 2K Clients Controller</td>
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<tr>
<td>JW702A</td>
<td>Aruba 7010 (RW) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1GBASE-X SFP 32 AP and 2K Clients Controller</td>
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<tr>
<td>JW703A</td>
<td>Aruba 7010 (US) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1GBASE-X SFP 32 AP and 2K Clients Controller</td>
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<td>JW704A</td>
<td>Aruba 7010 (IL) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP 32 AP and 2K Clients Controller</td>
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<tr>
<td>JW705A</td>
<td>Aruba 7010 (JP) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1GBASE-X SFP 32 AP and 2K Clients Controller</td>
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<tr>
<td>JY850A</td>
<td>Aruba 7010 (EG) 16x 1000BASE-T + 2x SFP Ports 32 AP Branch Controller</td>
</tr>
<tr>
<td>JW682A</td>
<td>Aruba 7024 (RW) 24-port 400W PoE+ 10G BASE-X SFP+ 32 AP and 2K Clients Controller</td>
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<tr>
<td>JW683A</td>
<td>Aruba 7024 (US) 24-port 400W PoE+ 10G BASE-X SFP+ 32 AP and 2K Clients Controller</td>
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<tr>
<td>JW684A</td>
<td>Aruba 7024 (IL) 24-port 400W PoE+ 10G BASE-X SFP+ 32 AP and 2K Clients Controller</td>
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# Ordering Information

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<tr>
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<td><strong>Aruba 7030 Series Mobility Controllers</strong></td>
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<td>JW686A</td>
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<td><strong>Controller Accessories</strong></td>
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<td>JX989A</td>
<td>AP-AC-12V30A 12V 30W Power Adapter</td>
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<td>JX933A</td>
<td>Aruba PSU-150-AC 150W AC Power Supply</td>
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<td>Aruba SPR-WL2-MNT S2500/S1500 7024 Wall and Rack Mount Kit</td>
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<td>Aruba 7005-MNT-19 7005 Series 19-inch Rack Mount Kit</td>
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<td>Aruba SPR-RK3-MNT 7205/7024/S2500-xx/S1500-24P/48P Spare Front Rack Mount</td>
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## ORDERING INFORMATION

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X: Supported transceiver
\(^1\)Default minimum ArubaOS software version is 6.5.3.0 and 8.1.0.0
\(^2\)Minimum ArubaOS software version is 6.5.4.7 and 8.4.0.0

For additional information on the Aruba 7000 Series Mobility Controllers please refer to:

- ArubaOS Network Operating System Data Sheet (and licenses)
- 7000 Series Mobility Controller
- 7000 Series Ordering Guide