Designed for the digital workplace, the Aruba 2540 Switch Series is optimized for today's mobile and IoT needs. The switches are easy to deploy, use and manage using Aruba AirWave or Aruba Central. Aruba ClearPass offers centralized security and external captive portal support.

The Aruba 2540 Switch Series provides a convenient and cost-effective wired access solution that can be quickly set up with Zero Touch Provisioning. PoE+ models deliver power across all access ports for wireless APs, security cameras, and other IoT devices.

The 2540 has wire-speed backhaul bandwidth capacity with built-in 10 GbE uplinks, robust QoS, static and RIP routing, IPv6 and includes a limited lifetime warranty with no software licensing required.

**ENHANCED FEATURES**

**Software-defined networks**
- Supports REST APIs to enable automation of network operations, monitoring, and troubleshooting

**Unified Wired and Wireless**
- Supports unified wired and wireless policies using Aruba ClearPass Policy Manager
- Switch auto-configuration automatically configures switches for different settings such as VLAN, CoS, PoE max power, and PoE priority when an Aruba access point is detected
- User Role defines a set of switch-based policies in areas such as security, authentication, and QoS. A user role can be assigned to a group of users or devices, using switch-based local user role or download from ClearPass
- Static IP Visibility allows ClearPass to do accounting for clients with static IP address

**Quality of Service (QoS)**
- Traffic prioritization (IEEE 802.1p) allows real-time traffic classification into eight priority levels mapped to eight queues
- Layer 4 prioritization based on TCP/UDP port numbers
- Class of service (CoS) sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ
- Rate limiting sets per-port ingress enforced maximums and per-port, per-queue minimums
- Large buffers provide graceful congestion management

**Connectivity**
- Flexible 10 Gbps Ethernet with four built-in 10 Gigabit ports (SFP+)
- Auto-MDIX provides automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- IEEE 802.3at Power over Ethernet (PoE+) provides up to 30 W per port that allows support of the latest PoE+-capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af-compliant end device; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments
• Pre-standard PoE support detects and provides power to pre-standard PoE devices
• IPv6
  - IPv6 host Enables switches to be managed in an IPv6 network
  - Dual stack (IPv4 and IPv6) Transitions from IPv4 to IPv6, supporting connectivity for both protocols
  - MLD snooping Forwards IPv6 multicast traffic to the appropriate interface
• IPv6 ACL/QoS Supports ACL and QoS for IPv6 network traffic
• IPv6 routing Supports static and RIPng protocols
• Security Provides RA guard, DHCPv6 protection, dynamic IPv6 lockdown, and ND snooping

Performance and Efficiency
• Energy-efficient design delivers power savings
• 80 PLUS Silver Certified power supply increases efficiency and savings
• Energy-efficient Ethernet (EEE) support reduces power consumption in accordance with IEEE 802.3az
• Designed with the latest ProVision ASIC, providing very low latency, increased packet buffering, and adaptive power consumption
• Selectable queue configurations allow for increased performance by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications

Convergence
• IP multicast snooping and IGMP automatically prevent flooding of IP multicast traffic
• IEEE 802.1AB Link Layer Discovery Protocol (LLDP) facilitates easy mapping using network management applications with LLDP automated device discovery protocol
• LLDP-MED (Media Endpoint Discovery) defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to configure automatically network devices such as IP phones
• PoE and PoE+ allocations support multiple methods (automatic, IEEE 802.3at dynamic, LLDP-MED fine grain, IEEE 802.3af device class, or user-specified) to allocate and manage PoE and PoE+ power for more efficient energy savings
• Local MAC Authentication assigns attributes such as VLAN and QoS using locally configured profile that can be a list of MAC prefixes

Resiliency and high availability
• IEEE 802.1s Multiple Spanning Tree provides high link availability by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w
• IEEE 802.3ad link-aggregation-control protocol (LACP) and port trunking support up to 26 static, dynamic, or distributed trunks with each trunk having up to eight links (ports) per static trunk
• SmartLink provides easy-to-configure link redundancy of active and standby links

Simplified Configuration and Management
• SNMPv1, v2, and v3 provide complete support of SNMP; support of industry-standard Management Information Base (MIB) plus private extensions; SNMPv3 supports increased security using encryption
• Zero-Touch Provisioning (ZTP) simplifies installation of the switch using Aruba Activate or a DHCP-based process with AirWave Network Management
• Flexible management with same hardware – Supports both cloud-based Central and on-premise AirWave without ripping and replacing switching infrastructure
• Aruba Central cloud-based management platform offers a simple, secure, and cost-effective way to manage switches

Manageability
• Dual flash images provide independent primary and secondary operating system files for backup while upgrading
• Friendly port names allow assignment of descriptive names to ports
• Find-Fix-Inform finds and fixes common network problems automatically, then informs administrator
• Multiple configuration files allow multiple configuration files to be stored to a flash image
• Software updates free downloads from the Web
• RMON, XRMON, and sFlow® provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
• Troubleshooting ingress and egress port monitoring enable more efficient problem solving
• Unidirectional link detection (UDLD) monitors the link between two switches and blocks the ports on both ends of the link if the link goes down at any point between the two devices
Layer 2 switching
- VLAN support and tagging supports IEEE 802.1Q (4,094 VLAN IDs) and 512 VLANs simultaneously
- Jumbo packet support improves the performance of large data transfers; supports frame size of up to 9,220 bytes
- IEEE 802.1v protocol VLANs isolate select non-IPv4 protocols automatically into their own VLANs
- Rapid per-VLAN spanning tree (RPVST+) allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+
- GVRP and MVRP allow automatic learning and dynamic assignment of VLANs

Layer 3 services
- DHCP server centralizes and reduces the cost of IPv4 address management

Layer 3 routing
- Static IP routing provides manually configured routing; includes ECMP capability
- 256 static and 2,000 RIP routes facilitate segregation of user data, without adding external hardware
- Routing Information Protocol (RIP) provides RIPv1, RIPv2, and RIPng routing

Security
- Multiple user authentication methods
  - Uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
  - Supports web-based authentication
  - Supports MAC-based authentication
  - Authentication flexibility
    - Multiple IEEE 802.1X users per port provides authentication of multiple devices on a single port; prevents a user from piggybacking on another user’s IEEE 802.1X authentication
    - Concurrent IEEE 802.1X, Web, and MAC authentication schemes per port switch port will accept up to 32 sessions of IEEE 802.1X, Web, and MAC authentications
  - Access control lists (ACLs) provide IP Layer 3 filtering based on source and destination IP address or subnet and source and destination TCP/UDP port number
  - Source-port filtering allows only specified ports to communicate with each other
  - RADIUS/TACACS+ eases switch management security administration by using a password authentication server
  - Secure shell encrypts all transmitted data for secure remote CLI access over IP networks
- Secure Sockets Layer (SSL) encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- Port security allows access only to specified MAC addresses, which can be learned or specified by the administrator
- MAC address lockout prevents particular configured MAC addresses from connecting to the network
- Secure FTP allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- Switch management logon security helps secure switch CLI logon by optionally requiring either RADIUS or TACACS+ authentication
- Custom banner displays security policy when users log in to the switch
- STP BPDU port protection blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- DHCP protection blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- Dynamic ARP protection blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- Dynamic IP lockdown works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing
- STP root guard protects the root bridge from malicious attacks or configuration mistakes
- Identity-driven ACL enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each authenticated network user
- Per-port broadcast throttling configures broadcast control selectively on heavy traffic port uplinks
- Monitor and diagnostics digital optical monitoring of SFP+ and 1000BASE-T transceivers allow detailed monitoring of the transceiver settings and parameters

Warranty and support
- Limited Lifetime Warranty
See www.hpe.com/networking/warrantysummary for warranty and support information included with your product purchase
- Software releases to find software for your product, refer to www.hpe.com/networking/support; for details on the software releases available with your product purchase, refer to www.hpe.com/networking/warrantysummary
## SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Aruba 2540 24G 4SFP+ Switch (JL354A)</th>
<th>Aruba 2540 48G 4SFP+ Switch (JL355A)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I/O ports and slots</strong></td>
<td>24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 4 SFP+ 1/10GbE ports; PHY-less</td>
<td>48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 SFP+ 1/10GbE ports; PHY-less</td>
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<tr>
<td><strong>Additional ports and slots</strong></td>
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</tr>
<tr>
<td><strong>Physical characteristics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.42(w) x 7.88(d) x 1.73(h) in. (44.25 x 20.02 x 4.39 cm) (1U height)</td>
<td>17.42(w) x 9.7(d) x 1.73(h) in. (44.25 x 24.63 x 4.39 cm) (1U height)</td>
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<tr>
<td>Weight</td>
<td>5.31 lb (2.41 kg)</td>
<td>6.83 lb (3.10 kg)</td>
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<tr>
<td>Memory and processor</td>
<td>Dual Core ARM® Cortex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5 MB Ingress/7.875 MB Egress, 4 GB eMMC</td>
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</tr>
<tr>
<td><strong>Performance</strong></td>
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<td></td>
</tr>
<tr>
<td>1,000 MB Latency</td>
<td>&lt; 3.8 µs (64-byte packets)</td>
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<td>10 Gbps Latency</td>
<td>&lt; 1.6 µs (64-byte packets)</td>
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<tr>
<td>Throughput</td>
<td>up to 95.2 Mpps</td>
<td>up to 112.0 Mpps</td>
</tr>
<tr>
<td>Switching capacity</td>
<td>128 Gbps</td>
<td>176 Gbps</td>
</tr>
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<td>Routing table size</td>
<td>2,000 entries (IPv4), 1,000 entries (IPv6)</td>
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</tr>
<tr>
<td>MAC address table size</td>
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</tr>
<tr>
<td><strong>Environment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>32°F to 113°F (0°C to 45°C); up to 5,000 Feet, -0°C to 40°C (32°F to 104°F) up to 10,000 Feet</td>
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<tr>
<td>Operating relative humidity</td>
<td>15% to 95% @ 104°F (40°C), noncondensing</td>
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<tr>
<td>Nonoperating/Storage temperature</td>
<td>-40°F to 158°F (-40°C to 70°C); up to 15,000 Feet</td>
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<td>Nonoperating/Storage relative humidity</td>
<td>15% to 95% @ 149°F (65°C), noncondensing</td>
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</tr>
<tr>
<td>Acoustic</td>
<td>Power: 49.7 dB, Pressure: 37.1 dB</td>
<td>Power: 54.1 dB, Pressure: 40.2 dB</td>
</tr>
<tr>
<td>Airflow direction</td>
<td>Side-to-side</td>
<td>Side-to-side</td>
</tr>
<tr>
<td><strong>Electrical characteristics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Maximum heat dissipation</td>
<td>100 BTU/hr (105.5 kJ/hr)</td>
<td>159 BTU/hr (167.74 kJ/hr)</td>
</tr>
<tr>
<td>Voltage</td>
<td>100–127/200–240 VAC, rated</td>
<td>100–127/200–240 VAC, rated</td>
</tr>
<tr>
<td>Current</td>
<td>0.6/0.4 A</td>
<td>0.9/0.6 A</td>
</tr>
<tr>
<td>Maximum power rating</td>
<td>29.3 W</td>
<td>46.6 W</td>
</tr>
<tr>
<td>Idle power</td>
<td>19.5 W</td>
<td>32.7 W</td>
</tr>
<tr>
<td>Notes</td>
<td>Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</td>
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<tr>
<td><strong>Emissions</strong></td>
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<tr>
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<tr>
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<tr>
<td>ESD</td>
<td>IEC 61000-4-2</td>
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<tr>
<td>Radiated</td>
<td>IEC 61000-4-3</td>
</tr>
<tr>
<td>EFT/Burst</td>
<td>IEC 61000-4-4</td>
</tr>
<tr>
<td>Surge</td>
<td>IEC 61000-4-5</td>
</tr>
<tr>
<td>Conducted</td>
<td>IEC 61000-4-6</td>
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<tr>
<td>Power frequency magnetic field</td>
<td>IEC 61000-4-8</td>
</tr>
<tr>
<td>Voltage dips and interruptions</td>
<td>IEC 61000-4-11</td>
</tr>
<tr>
<td>Harmonics</td>
<td>EN 61000-3-2, IEC 61000-3-2</td>
</tr>
<tr>
<td>Flicker</td>
<td>EN 61000-3-3, IEC 61000-3-3</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td><strong>Management</strong></td>
</tr>
<tr>
<td>Aruba Central; Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; Out-of-band management (serial RS-232C or micro USB)</td>
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<tr>
<td>Weight</td>
<td>8.6 lb (3.9 kg)</td>
<td>9.83 lb (4.46 kg)</td>
</tr>
<tr>
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<td>Dual Core ARM Coretex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5 MB Ingress/7.785 MB Egress, 4 GB eMMC</td>
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<tr>
<td>Operating temperature</td>
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<td>15% to 95% @ 104°F (40°C), noncondensing</td>
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<td>Nonoperating/Storage temperature</td>
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<td>15% to 95% @ 149°F (65°C)</td>
</tr>
<tr>
<td>Acoustic</td>
<td>Power: 54.1 dB, Pressure: 40.6 dB</td>
<td>Power: 55.7 dB, Pressure: 41.7 dB</td>
</tr>
<tr>
<td>Airflow direction</td>
<td>Side-to-side</td>
<td>Side-to-side</td>
</tr>
<tr>
<td><strong>Electrical characteristics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>80plus.org Certification</td>
<td>Silver</td>
<td>Silver</td>
</tr>
<tr>
<td>Maximum heat dissipation</td>
<td>258.0 BTU/hr (272.2 kJ/hr)</td>
<td>293.0 BTU/hr (309.1 kJ/hr)</td>
</tr>
<tr>
<td>Voltage</td>
<td>100–127/200–240 VAC, rated</td>
<td>100–127/200–240 VAC, rated</td>
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<tr>
<td>Current</td>
<td>4.9/2.4 A</td>
<td>5.1/2.5 A</td>
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<tr>
<td>Maximum power rating</td>
<td>445 W</td>
<td>459 W</td>
</tr>
<tr>
<td>Idle power</td>
<td>36.8 W</td>
<td>48.6 W</td>
</tr>
</tbody>
</table>
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| Aruba 2540 24G PoE+ 4SFP+ Switch  
| (JL356A) (JL356ACM') | Aruba 2540 48G PoE+ 4SFP+ Switch  
| (JL357A) |
| --- | --- |
| **Electrical characteristics continued** |  |
| **PoE power** | 370 W PoE+  |
| **Notes** | Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
| **Safety** |  |
| **Emissions** |  |
| VCCI Class A; CNS 13438; ICES-003 Class A; FCC CFR 47 Part 15, Class A; EN 55022: 2010/CISPR-22, Class A | VCCI Class A; CNS 13438; ICES-003 Class A; FCC CFR 47 Part 15, Class A; EN 55022: 2010/CISPR-22, Class A |
| **Immunity** |  |
| **Generic** | EN 55024:2010/CISPR 24  |
| **ESD** | IEC 61000-4-2  |
| **Radiated** | IEC 61000-4-3  |
| **EFT/Burst** | IEC 61000-4-4  |
| **Surge** | IEC 61000-4-5  |
| **Conducted** | IEC 61000-4-6  |
| **Power frequency magnetic field** | IEC 61000-4-8  |
| **Voltage dips and interruptions** | IEC 61000-4-11  |
| **Harmonics** | EN 61000-3-2, IEC 61000-3-2  |
| **Flicker** | EN 61000-3-3, IEC 61000-3-3  |
| **Management** | Aruba Central; Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; Out-of-band management (serial RS-232C or micro USB)  |
| **Services** | Refer to the Hewlett Packard Enterprise website at www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.  | Refer to the Hewlett Packard Enterprise website at www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |
STANDARDS AND PROTOCOLS
(APPLIES TO ALL PRODUCTS IN SERIES)

Denial of service protection
• CPU DoS Protection

Device management
• RFC 1155 Structure and Mgmt Information (SMIv1)
• RFC 1157 SNMPv1/v2c
• RFC 1591 DNS (client)
• RFC 1901 (Community based SNMPv2)
• RFC 1901-1907 SNMPv2c, SMIv2 and Revised MIB-II
• RFC 1908 (SNMP v1/2 Coexistence)
• RFC 2576 (Coexistence between SNMP V1, V2, V3)
• RFC 2578-2580 SMIv2
• RFC 2579 (SMIv2 Text Conventions)
• RFC 2580 (SMIv2 Conformance)
• RFC 2819 (RMON groups Alarm, Event, History and Statistics only)
• RFC 3416 (SNMP Protocol Operations v2)
• RFC 3417 (SNMP Transport Mappings)
• HTML and telnet management
• HTTP, SSHv1, and Telnet
• Multiple Configuration Files
• Multiple Software Images
• SNMP v3 and RMON RFC support
• SSHv1/SSHv2 Secure Shell
• TACACS/TACACS+
• Web UI

General protocols
• IEEE 802.1AX-2008 Link Aggregation
• IEEE 802.1D MAC Bridges
• IEEE 802.1p Priority
• IEEE 802.1Q VLANs
• IEEE 802.1s Multiple Spanning Trees
• VLAN classification by Protocol and Port
• IEEE 802.3ad Link Aggregation Control Protocol (LACP)
• IEEE 802.3af Power over Ethernet
• IEEE 802.3at PoE+
• IEEE 802.3az Energy Efficient Ethernet
• IEEE 802.3x Flow Control
• RFC 768 UDP
• RFC 783 TFTP Protocol (revision 2)
• RFC 792 ICMP
• RFC 793 TCP
• RFC 826 ARP
• RFC 854 TELNET
• RFC 868 Time Protocol
• RFC 951 BOOTP
• RFC 1058 RIPv1
• RFC 1256 ICMP Router Discovery Protocol (IRDP)
• RFC 1350 TFTP Protocol (revision 2) IEEE 802.1v
• RFC 1519 CIDR IEEE 802.1w Rapid Reconfiguration
• RFC 1542 BOOTP Extensions IEEE 802.3ab
• RFC 1918 Address Allocation for Private Internet
• RFC 2030 Simple Network Time Protocol (SNTP) v4
• RFC 2131 DHCP
• RFC 2236 IGMPv2
• RFC 2453 RIPv2
• RFC 2865 Remote Authentication Dial In User Service (RADIUS)
• RFC 2866 RADIUS Accounting
• RFC 3046 DHCP Relay Agent Information Option
• RFC 3411 An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks
• RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)
• RFC 3413 Simple Network Management Protocol (SNMP) Applications
• RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)
• RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)
• RFC 3416 Protocol Operations for SNMP
• RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)
• RFC 3575 IANA Considerations for RADIUS
• RFC 3576 Ext to RADIUS (CoA only)
• RFC 4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches
• RFC 4675 RADIUS VLAN & Priority
• RFC 4861 Neighbor Discovery for IP version 6 (IPv6)
• RFC 4862 IPv6 Stateless Address Auto configuration
• UDLD (Uni-directional Link Detection)
IP multicast

- RFC 1112 IGMP
- RFC 2236 IGMPv2
- RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- RFC 4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD)

Snooping Switches

IPv6

- RFC 1981 IPv6 Path MTU Discovery
- RFC 2080 RIPng for IPv6
- RFC 2081 RIPng Protocol Applicability
- RFC 2082 RIP-2 MD5 Assignments
- RFC 2460 IPv6 Specification
- RFC 2464 Transmission of IPv6 over Ethernet Networks
- RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)
- RFC 3019 MLDv1 MIB
- RFC 3315 DHCPv6 (client and relay)
- RFC 3484 Default Address Selection for IPv6
- RFC 3513 IPv6 Addressing Architecture
- RFC 3596 DNS Extension for IPv6
- RFC 3810 MLDv2 for IPv6
- RFC 4022 MIB for TCP
- RFC 4113 MIB for UDP
- RFC 4251 SSHv6 Architecture
- RFC 4252 SSHv6 Authentication
- RFC 4253 SSHv6 Transport Layer
- RFC 4254 SSHv6 Connection
- RFC 4291 IP Version 6 Addressing Architecture
- RFC 4293 MIB for IP
- RFC 4419 Key Exchange for SSH
- RFC 4443 ICMPv6
- RFC 4541 IGMP & MLD Snooping Switch
- RFC 4861 IPv6 Neighbor Discovery
- RFC 4862 IPv6 Stateless Address Auto-configuration
- RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
- RFC 6620 FCFS SAVI
- draft-ietf-savi-mix

MIBs

- IEEE 802.1ap (MSTP and STP MIB’s only)
- IEEE 8021-Q-Bridge-MIB (2008)
- RFC 1155 Structure & ID of Mgmt Info for TCP/IP Internets
- RFC 1156 (TCP/IP MIB)
- RFC 1157 A Simple Network Management Protocol (SNMP)
- RFC 1213 MIB II
- RFC 1493 Bridge MIB
- RFC 1724 RIPv2 MIB
- RFC 2021 RMONv2 MIB
- RFC 2578 Structure of Management Information Version 2 (SMIv2)
- RFC 2579 Textual Conventions for SMIv2
- RFC 2580 Conformance Statements for SMIv2
- RFC 2613 SMON MIB
- RFC 2618 RADIUS Client MIB
- RFC 2620 RADIUS Accounting MIB
- RFC 2665 Ethernet-Like-MIB
- RFC 2668 802.3 MAU MIB
- RFC 2674 802.1Q Bridge MIB
- RFC 2737 Entity MIB (Version 2)
- RFC 2819 RMON MIB
- RFC 2863 The Interfaces Group MIB
- RFC 2925 Ping MIB
- RFC 2932 IP (Multicast Routing MIB)
- RFC 2933 IGMP MIB
- RFC 3414 SNMP-User based-SM MIB
- RFC 3415 SNMP-View based-ACM MIB
- RFC 3417 Simple Network Management Protocol (SNMP) over IEEE 802 Networks
- RFC 3418 MIB for SNMPv3
- RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)

Network management

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- RFC 1155 Structure of Management Information
- RFC 1157 SNMPv1
- RFC 2021 Remote Network Monitoring Management Information Base Version 2 using SMIv2
- RFC 2576 Coexistence between SNMP versions
- RFC 2578 Structure of Management Information Version 2 (SMIv2)
• RFC 2579 Textual Conventions for SMIv2
• RFC 2580 Conformance Statements for SMIv2
• RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
• RFC 2819 Remote Network Monitoring Management Information Base
• RFC 2856 Textual Conventions for Additional High Capacity Data Types
• RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations
• RFC 3164 BSD syslog Protocol
• RFC 3176 sFlow
• RFC 3411 SNMP Management Frameworks
• RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)
• RFC 3413 Simple Network Management Protocol (SNMP) Applications
• RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)
• RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)
• RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
• RFC 5424 Syslog Protocol
• ANSI/TIA-1057 LLDP Media Endpoint
• Discovery (LLDP-MED)
• SNMPv1/v2c/v3 XRMON

QoS/CoS
• IEEE 802.1p (CoS)
• RFC 2474 DiffServ Precedence, including 8 queues/port
• RFC 2475 DiffServ Architecture
• RFC 2597 DiffServ Assured Forwarding (AF)
• RFC 2598 DiffServ Expedited Forwarding (EF)
• Ingress Rate Limiting

Security
• IEEE 802.1X Port Based Network Access Control
• RFC 1321 The MD5 Message-Digest Algorithm
• RFC 1334 PPP Authentication Protocols (PAP)
• RFC 1492 An Access Control Protocol, Sometimes Called TACACS
• RFC 1492 TACACS+
• RFC 1994 PPP Challenge Handshake Authentication Protocol (CHAP)
• RFC 2082 RIP-2 MD5 Authentication
• RFC 2104 Keyed-Hashing for Message Authentication
• RFC 2138 RADIUS Authentication
• RFC 2139 RADIUS Accounting
• RFC 2246 Transport Layer Security (TLS)
• RFC 2548 Microsoft® Vendor-specific RADIUS Attributes
• RFC 2618 RADIUS Authentication Client MIB
• RFC 2620 RADIUS Accounting Client MIB
• RFC 2716 PPP EAP TLS Authentication Protocol
• RFC 2818 HTTP Over TLS
• RFC 2865 RADIUS (client only)
• RFC 2865 RADIUS Authentication
• RFC 2866 RADIUS Accounting
• RFC 2867 RADIUS Accounting Modifications for Tunnel Protocol Support
• RFC 2868 RADIUS Attributes for Tunnel Protocol Support
• RFC 2869 RADIUS Extensions
• RFC 2882 NAS Requirements: Extended RADIUS Practices
• RFC 3162 RADIUS and IPv6
• RFC 3576 Dynamic Authorization Extensions to RADIUS
• RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP)
• RFC 3580 IEEE 802.1X RADIUS
• RFC 3580 IEEE 802.1X Remote Authentication Dial In User Service (RADIUS) Usage Guidelines
• RFC 4576 RADIUS Attributes
• Access Control Lists (ACLs)
• draft-grant-tacacs-02 (TACACS)
• Guest VLAN for 802.1X
• MAC Authentication
• MAC Lockdown
• MAC Lockout
• Port Security
• Secure Sockets Layer (SSL)
• SSHv2 Secure Shell
• Web Authentication
ARUBA 2540 SWITCHES AND ACCESSORIES

Switch Models
• Aruba 2540 24G 4SFP+ Switch (JL354A)
• Aruba 2540 48G 4SFP+ Switch (JL355A)
• Aruba 2540 24G PoE+ 4SFP+ Switch (JL356A)
• Aruba CM 2540 24G PoE+ 4SFP+ Switch (JL356ACM)
• Aruba 2540 48G PoE+ 4SFP+ Switch (JL357A)

Transceivers
• Aruba 100M SFP LC FX 2km MMF XCVR (J9054D)
• Aruba CM 100M SFP LC FX 2km MMF XCVR (J9054DCM)
• Aruba 1G SFP RJ45 T 100m Cat5e XCVR (J8177D)
• Aruba CM 1G SFP RJ45 T 100m Cat5e XCVR (J8177DCM)
• Aruba 1G SFP LC SX 500m MMF XCVR (J4858D)
• Aruba CM 1G SFP LC SX 500m MMF XCVR (J4858DCM)
• Aruba 1G SFP LC LX 10km SMF XCVR (J4859D)
• Aruba CM 1G SFP LC LX 10km SMF XCVR (J4859DCM)
• Aruba 1G SFP LC LH 70km SMF XCVR (J4860D)
• Aruba CM 1G SFP LC LH 70km SMF XCVR (J4860DCM)
• Aruba 10G SFP+ LC SR 300m MMF XCVR (J9150D)
• Aruba CM 10G SFP+ LC SR 300m MMF XCVR (J9150DCM)
• Aruba 10G SFP+ LC LR 10km SMF XCVR (J9151E)
• Aruba CM 10G SFP+ LC LR 10km SMF XCVR (J9151ECM)
• Aruba 10G SFP+ LC ER 40km SMF XCVR (J9153D)
• Aruba 10G SFP+ to SFP+ 1m DAC Cable (J9281D)
• Aruba 10G SFP+ to SFP+ 3m DAC Cable (J9283D)

Note: No support for 10G LRM (J9152D) and no support for 10G 7m DAC (J9285D)

Cables
• Aruba X2C2 RJ45 to DB9 Console Cable (JL448A)

Mounting Kit
• HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)
• Aruba X414 1U Universal 4-post Rack Mounting Kit (J9583B)

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1 All hardware SKUs can be managed by Aruba Central. Central Managed (CM) SKUs are used for simplified ordering within U.S. and Canada only. Append "CM" to the indicated SKU #: (e.g., J9772ACM to order the J9772A). Requires an active Central license and end-user information consistent with the Central license purchase. Applicable accessories with a valid "CM" suffix should also be placed on the same order.