

ARUBA 3810M SWITCH SERIES

Fixed Port L3 Managed Ethernet Switches



WHAT'S NEW

- Powerful Aruba Layer 3 switch series with backplane stacking, low latency, resiliency and programmability for a better mobile-first campus experience.
- HPE Smart Rate for high speed multi-gigabit capacity and PoE+ power.
- Modular line rate 10GbE and 40GbE ports for wireless aggregation.
- Full PoE+ on all 48 ports for power-hungry high-speed wireless APs.
- Aruba ClearPass Policy Manager, Aruba AirWave and Aruba Central support.
- Ready for the software defined network with REST APIs and OpenFlow support.

OVERVIEW

The Aruba 3810 Switch Series provides performance and resiliency for enterprises, SMBs, and branch office networks. With HPE Smart Rate multi-gigabit ports for high-speed 802.11ac devices, this advanced Layer 3 switch delivers a better application experience with low latency, virtualization with resilient stacking technology, and line rate 40GbE for plenty of back haul capacity. The Aruba 3810 is easy to deploy and manage with advanced security and network management tools like Aruba ClearPass Policy Manager, Aruba AirWave and cloud-based Aruba Central.

FEATURES

Performance and Power for the Digital Workplace

The Aruba 3810 Switch Series is an industry leading mobile campus access solution for enterprises, SMBs, and branch office networks. With HPE Smart Rate multi-gigabit ports for high speed 802.11ac devices, the Aruba 3810 will prepare your network for tomorrow.

HPE Smart Rate ports support multi-gigabit Ethernet speeds (1, 2.5, 5, and 10 gigabit Ethernet) on existing cabling for cost-effective and convenient network upgrades with no rip and replace of cabling.

Optimized for the digital workplace with unified management and security tools such as Aruba ClearPass Policy Manager, Aruba Airwave

and Aruba Central. Provides optimal configuration automatically when connected to Aruba access points for PoE priority, VLAN configuration, and rogue AP containment.

Rightsizes deployment and back haul capacity with modular 10GbE and 40GbE uplinks. Full PoE+ provisioning on 48-ports. Dual, redundant, hot-swappable power supplies and innovative backplane stacking technology delivers resiliency and scalability in a convenient 1U form factor.

Advanced Layer 2 and 3 feature set with OSPF, IPv6, IPv4 BGP, robust QoS and policy-based routing are included with no software licensing. Built-in programmable and easy to use REST API interface provides configuration automation for Mobile-first campus networks.

Resiliency and High Availability You Can Depend On

The Aruba 3810 Switch Series is designed with a ProVizion ASIC designed to enable the mobile campus with very low latency, increased packet buffering, and adaptive power consumption.

Backplane stacking technology delivers high-performance stacking with up to 336 Gb/s of stacking throughput and increased resiliency. Up to ten Aruba 3810 switches can be stacked in a ring topology or up to five can be stacking in a mesh topology.

Dual hot-swappable power supplies provide power and allow swapping of modules on the fly to reduce impact on the network availability. More performance with selectable queue configurations and associated memory buffering that best meets requirements of prioritized network applications.

Selectable queue configurations enables increased performance by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications.

Uninterrupted switching and routing for improved application experience and enhanced L3 availability. Supports virtual router redundancy protocol (VRRP) allowing groups of two routers to dynamically back each other up to create highly available router environments in both IPv4 and IPv6 networks.

Trusted Security with Unmatched Quality of Service

The Aruba 3810 Switch Series includes robust security and quality of services features to build a mobile campus network that meets corporate policies and compliance requirements.

Flexible traffic controls, such as policy-based routing, QoS, and ACLs, to manage end-to-end application priorities for improved user experience.

Enhanced security and policy-driven application authentication with concurrent 802.1X, MAC and Web Authentication modes. Prevent unwanted traffic with advanced distributed denial of service (DDoS) protection, such as DHCP Snooping, IP Source Guard, and ARP Protection.

Powerful multilevel-access security controls, such as role-based management, configurable password complexity, RADIUS/TACACS+, and SSH for improved security and control change management access.

Tunneled Node to transport network traffic on a per-port basis to Aruba controller with authentication and network policies applied and enforced at the controller. Industry standard MACsec provides switch-to-switch link level security.

Simplify with Unified Management

The Aruba 3810 Switch Series supports Aruba ClearPass Policy Manager to provide unified and consistent policy between wired and wireless users. Simplified implementation and management of guest login, user onboarding, network access, security, QoS, and other network policies on the network.

Supports Aruba AirWave and cloud-based Aruba Central to provide common platform for zero-touch provisioning, management, and monitoring for wired and wireless network devices.

Supports both cloud-based Central and on-premise AirWave with the same hardware ensuring change of management platform without ripping and replacing switching infrastructure.

RMON, XRMON and sFlow provide advanced monitoring and reporting capabilities for statistics, history, alarms and events.

Out-of-band Ethernet management port keeps management traffic segmented from your network data traffic.

Technical specifications

Aruba 3810M Switch Series

Differentiator	The Aruba 3810 Switch Series is a powerful Layer 3 switch series with backplane stacking, low latency and resiliency for a better mobile-first campus experience.
Ports	48 10/100/1000 ports, maximum or 16 1/10GbE SFP+ ports, depending on model, all supporting MACSec 8 HPE Smart Rate Multi-Gigabit (1/2.5/5/10GBASE-T) ports, available on select model 2 open I/O module slots, maximum, depending on model PoE/PoE+ on selected models
Memory and processor	Dual ARM Coretex A9 @ 1 GHz 2 GB DDR3 SDRAM Packet buffer size: 13.5 MB Internal
Latency	1000 Mb Latency: < 2.8 μ s 10 Gbps Latency: < 1.8 μ s 40 Gbps Latency: < 1.5 μ s
PoE capability	1440 W maximum Depending on model and configuration
Stacking capabilities	Virtual 10 switches
Management features	Aruba AirWave Network Management Aruba Central IMC - Intelligent Management Center Command-line interface Web browser Configuration menu Out-of-band management (RJ-45 Ethernet) In-line and out-of-band Out-of-band management (serial RS-232C or micro USB)
Input voltage	100-240 VAC Depending on installed options, model and configuration
Operating humidity range	15 to 95% @ 104°F (40°C) (noncondensing)
Product Dimensions (metric)	44.25 x 43.13 x 4.39 cm

For additional technical information, available models and options, please reference the [QuickSpecs](#)

ARUBA GLOBAL SERVICES

Aruba Global Services simplifies and accelerates the network technology lifecycle, enabling your network to scale with better predictability and cost-effectiveness. Whether you operate your own network and need to improve your IT efficiencies or you want to offload some of the burden, we have the services you need to reach your goals.

Learn more about what Aruba Global Services has to offer at: arubanetworks.com/services/



Support Services from Aruba

Support services reduce complexity and increase your team's productivity, ensuring you keep pace with technology advances and software releases, and obtain break-fix support required to keep your network running. Access to premium services means you have the right help at the right time.

Professional Services from Aruba

With deep intellectual capital and purpose-built tools, our team delivers a range of standard and custom professional services designed to accelerate your value from Aruba technology.

QuickStart Services include:

- Planning, audit and assessment
- Architecture review and design
- Deployment, migration, and knowledge transfer

Proactive Engineering Services include:

- Intelligent Operations
- Customer Experience Management
- Network optimization

Our **Education Services** allow your team to come up to speed quickly.

Aruba Network as-a-Service (NaaS)

Our NaaS solution, Aruba Managed Connectivity Services, part of the HPE GreenLake services family, simplifies network operations, accelerates equipment handling, and increases the value of your Aruba network. If you need expert guidance and automation-based operations for your team, please explore the NaaS approach from Aruba [here](#).

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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