Data sheet

HPE Aruba Networking 2930M Switch Series

What's new

- The 2930M Series is a family of layer 3 stackable switches that are easy to deploy and manage, providing scale and modularity for enterprise, SMB and branch access networks.
- Simplify with Zero Touch Provisioning and cloud-based HPE Aruba Networking Central support.
- Scale with modular 10 chassis stacking and up to 1440W PoE.
- Modular 10 GbE and 40 GbE uplinks and HPE Smart Rate multi-gigabit support.
- Models with 24 ports of HPE Smart Rate with IEEE 802.3bz.
- High Power PoE models deliver up to 60W of PoE per port.

Overview

The HPE Aruba Networking 2930M Switch Series is designed for digital workplaces optimized for mobile users. These powerful Layer 3 access switches are easy to deploy and manage with advanced security and network management tools like HPE Aruba Networking ClearPass Policy Manager, HPE Aruba Networking Management Software (AirWave) and cloud-based HPE Aruba Networking Central. Modular stacking, uplinks and power provide scalability and simplicity for enterprise edge, SMB and branch office networks. The HPE Aruba Networking 2930M Switch Series delivers performance and value with support for static, RIP and Access OSPF routing, 10 GbE and 40 GbE uplinks, models with 24 ports of HPE Smart Rate multi-gigabit Ethernet, up to 1440W of PoE, robust QoS, and Dynamic Segmentation for unified and secure access.

Features

High-Performance Layer 3 Access Switches

The HPE Aruba Networking 2930M Switch Series provides performance, security, and ease of use optimized for the digital workplace with unified management tools such as HPE Aruba Networking ClearPass Policy Manager, HPE Aruba Networking Management Software (Airwave), and HPE Aruba Networking Central.

Robust Layer 3 feature set includes Access OSPF, static and RIP routing, ACLs, Dynamic Segmentation, sFlow, IPv6 with no software licensing required.

Modular stacking (10 chassis) and modular 10 GbE (SFP+) and 40 GbE (QSFP+) uplinks. HPE Smart Rate multi-gigabit Ethernet models support high speed APs over existing cabling and upgradeable power supplies allow your network to quickly scale when more PoE is needed.

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

Supports multiple programmatic interfaces, including REST APIs and Openflow 1.0 and 1.3, to enable automation of network operations, monitoring, and troubleshooting.

Performance and Power at the Edge

The HPE Aruba Networking 2930M Switch Series is designed with a powerful ProVision ASIC, to enable the mobile campus with low latency, increased packet buffering, and adaptive power consumption.

Increase performance with selectable queue configurations and associated memory buffering that meets your specific network application requirements.

Plug and play with up to 10 chassis stacking allowing automated failover enhances network resiliency and RPS support delivers power redundancy.

Supports hot swappable and redundant PoE power for wireless access points, cameras and phones and can easily scale to 1440W with choice of power supplies. High power PoE models deliver up to 60W of PoE per port.

Security and Quality of Service You Can Rely On

The HPE Aruba Networking 2930M Switch Series includes security and quality of services (QoS) features to build a network that meets ever-changing corporate policies and compliances while protecting your data from both inside and outside attacks.

Flexible authentication options include standards based security protocols such as 802.1X, MAC and Web Authentication, to enhance security and policy-driven application authentication.

Powerful multilevel-access security controls include source-port filtering, RADIUS/TACACS+, SSL, port security, and MAC address lockout.

Dynamic Segmentation provides user and port-based traffic tunneling to an HPE Aruba Networking Mobility Controller or Branch Gateway so that policies can be applied, advanced services can be extended to users and IoT devices, and traffic can be encrypted to protect the network.

Simplified Management For Your Network

The HPE Aruba Networking 2930M Switch Series supports HPE Aruba Networking ClearPass Policy Manager for unified, consistent policy between wired and wireless users, simplifying implementation and management of guest login, user onboarding, network access, security, QoS, and other network policies.

HPE Aruba Networking Management Software (AirWave) provides an on-premise network management platform for wired and wireless network devices. Cloud-based management with Zero Touch Provisioning supported by HPE Aruba Networking Central.

RMON 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	HPE Aruba Networking 2930M Switch Series
Power consumption	860W (maximum), depending on model and configuration
Heat dissipation	200 BTU/hr 216 kJ/hr (maximum), depending on model and configuration
Input voltage	110-240 VAC, depending on power supply
Ports	(20 or 44) 10/100/1000 ports, (4) Dual Personality 10/100/1000 or 100/1000 Mbps SFP Ports. PoE+ on selected models, (1) uplink module slot, (1) stacking module
Latency	1000 Mb Latency: < 3.1 µs 10 Gbps Latency: < 3.4 µs
Switching capacity	320 Gbps maximum, depending on model and configuration
Throughput	112 Mpps maximum, depending on model and configuration
Memory and processor	Dual Core ARM Coretex A9 @ 1016 MHz 1 GB DDR3 SDRAM Packet buffer size: 12.38 MB and 4.5 MB Ingress, 7.785 Egress 4 GB eMMC
PoE capability	Up to 1440W of PoE Power
Management features	HPE Aruba Networking Management Software (AirWave) HPE Aruba Networking Central 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)
Warranty	Limited lifetime warranty. See the warranty duration.

HPE Aruba Networking Services

HPE Aruba Networking services simplify and accelerate 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 HPE Services - Aruba Networking has to offer at: hpe.com/edge/services

Support Services

Our support portfolio provides the essential support elements as well as proactive and preventive features to help you improve your team's productivity and get the most from your network. Our support customers benefit from faster issue resolution, simplified operations and efficiencies, and reduced network issues.

Professional Services

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 HPE Aruba Networking technology.

Project based services include:

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

Annual subscription services include:

— Network optimization
— Intelligent Operations
— Customer Experience Management

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

GreenLake for Networking

Deliver innovative business outcomes by leveraging new ways to consume, deploy and manage networks.

For additional technical information, available models and options, please reference the QuickSpecs

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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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