

# Aruba R0M68A

## Datasheet

## Product Overview

- The HPE Aruba Networking 2930M Series is a line of Layer 3 access switches built to power modern digital workplaces and mobile-first networks.
- Designed for enterprise edge, SMB, and branch offices, it fits deployments needing reliable wired access for Wi-Fi, IP APs, VoIP, cameras, and IoT devices.
- It offers high-performance switching with HPE Smart Rate multi-gigabit ports, 10/40 GbE uplinks, and up to 1440W PoE to support dense, power-hungry edge devices.
- Dynamic Segmentation, robust QoS, and advanced routing (static, RIP, Access OSPF) give secure, predictable traffic control across mixed user and IoT environments.
- Centralized tools like ClearPass, AirWave, and cloud-based Aruba Central simplify provisioning, policy enforcement, monitoring, and lifecycle management.
- For campuses and branches needing scalable, secure, and easy-to-manage access, the 2930M Series delivers strong value and performance in a modular, stackable form factor.

## Product Highlights

- **Scalable L3 Stackable Access:** The 2930M Series delivers Layer 3 stackable switches that are simple to deploy and manage, providing scalable, modular access for enterprise, SMB, and branch networks.
- **Zero Touch and Cloud Management:** Zero Touch Provisioning and Aruba Central cloud management streamline initial rollout and ongoing operations, cutting on-site setup time and configuration errors.
- **High-Density PoE and Stacking:** Support for 10-chassis stacking and up to 1440W PoE enables large-scale edge deployments with resilient power for APs, phones, and security devices.
- **Multi-Gig and Smart Rate PoE:** Modular 10/40 GbE uplinks plus 24 HPE Smart Rate IEEE 802.3bz ports and up to 60W PoE per port ensure high-speed backhaul and power for next-gen WiFi and IoT.

## Detailed Features



R0M68A

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Component	Specification
Input Voltage	100–127 / 200–240 VAC (rated), or 110–127 / 200–240 VAC depending on PSU
Access Ports	(24) RJ-45 autosensing 1/2.5/5GBASE-T PoE Class 6 ports
Uplink Expansion	(1) uplink module slot
Stacking Expansion	(1) stacking module slot
Form Factor	1U rack-mountable switch chassis

### High-Performance L3 Access Platform

The HPE Aruba Networking 2930M Series delivers high-performance Layer 3 access switching designed for the digital workplace. Powered by Arubas ProVision ASIC, it provides low latency, deep packet buffering, and efficient power usage. The platform supports static, RIP, and Access OSPF routing, enabling intelligent traffic forwarding at the edge without additional licenses. This makes it suitable for demanding campus, branch, and SMB access environments where consistent performance and simple routing are required.

### Comprehensive Layer 3 and IPv6 Features

A robust Layer 3 feature set includes static routing, RIP routing, and Access OSPF, allowing flexible network segmentation and efficient path selection. The switches also support advanced capabilities such as ACLs, sFlow, and full IPv6 features without license upgrades. This combination enables granular traffic control, detailed visibility, and readiness for dual-stack IPv4/IPv6 deployments, ensuring the network can adapt as addressing schemes and application requirements evolve.

### Modular Stacking and High-Speed Uplinks

With support for modular stacking of up to 10 chassis, the 2930M Series simplifies building a single logical switch across multiple units, improving resiliency and easing management. Modular 10 GbE (SFP+) and 40 GbE (QSFP+) uplink options provide flexible high-bandwidth connections to aggregation or core layers. This modularity lets organizations scale capacity and redundancy over time, adapting to growing user density, traffic volumes, and new application demands without complete hardware replacement.

### Smart Rate Multi-Gigabit and Scalable PoE

HPE Smart Rate multi-gigabit Ethernet ports support 1/2.5/5 GBASE-T to drive high-speed wireless access points over existing copper cabling, avoiding costly re-cabling. Upgradeable power supplies enable PoE budgets up to 1440W, supporting dense deployments of APs, cameras, and IP phones. High power PoE models provide up to 60W per port using IEEE 802.3bt Class 6, ensuring compatibility with power-hungry devices like WiFi 6/6E APs and advanced collaboration endpoints.

### Optimized Integration with Aruba Access Points

When connected to Aruba access points, the 2930M Series can automatically apply optimal configurations, including PoE priority, VLAN assignment, and rogue AP containment. This tight integration reduces manual configuration tasks and ensures consistent policy enforcement across wired and wireless domains. As a result, IT teams can rapidly roll out or expand WiFi networks with predictable performance and security, while minimizing configuration errors and deployment time.

### Automation and Open Programmability

The switches provide multiple programmatic interfaces, including REST APIs and OpenFlow 1.0/1.3, enabling automation of provisioning, monitoring, and troubleshooting workflows. These capabilities allow integration with orchestration platforms and custom tools, supporting intent-based networking and DevOps-style operations. Organizations can standardize configuration templates, push changes at scale, and collect real-time telemetry, improving operational efficiency and reducing the risk of manual misconfiguration.

### Resilient Power and Edge Performance

Built with the ProVision ASIC, the 2930M Series delivers low latency switching, flexible queue configurations, and adaptive power consumption, aligning performance with application needs. Up to 10-member stacking with automated failover enhances network availability, while RPS support and hot-swappable, redundant PoE power supplies strengthen power resilience. The ability to scale PoE up to 1440W and deliver 60W per port makes the platform ideal for edge deployments where uptime and continuous device power are critical.

### Advanced Security and Policy Enforcement

Security features include 802.1X, MAC, and Web authentication, plus RADIUS/TACACS+, SSL, port security, and MAC lockout for multi-layer protection. Dynamic Segmentation enables user and port-based traffic tunneling to Aruba Mobility Controllers or Branch Gateways, where policies and advanced services are centrally applied. This architecture encrypts traffic, simplifies policy management for users and IoT devices, and maintains compliance with evolving corporate security standards while keeping access flexible.

## Technical Specifications

### Product Specifications

Feature	Value
Product Number	HPE Aruba Networking 2930M 24 HPE Smart Rate PoE Class 6 1-slot Switch R0M68A



Feature	Value
Differentiator	Powerful and flexible high density 1U PoE access switch packed with 24 HPE Smart Rate PoE ports supporting high power IEEE 802.3bt Class 6 (up to 60W) per port. Ideal for advanced Wi-Fi deployments. This model has 24x 802.3bz 1/2.5/5 GBase-T copper PoE Class 6 ports. This model supports up to 1440W of PoE budget based on selected power supplies (max 2), with power supplies ordered separately.
Power consumption	2 power supplies are supported: JL086A PSU (each): 513W JL087A PSU (each): 873W
Heat dissipation	150 BTU/hr 162 kJ/hr
Input voltage	100 - 127 / 200 - 240 VAC, rated or 110-127 / 200-240VAC, Rated depending on power supply
Ports	(24) RJ-45 autosensing 1/2.5/5GBASE-T PoE Class 6 ports (1) Uplink module slot, (1) stacking module slot
Latency	1000 Mb Latency: < 3.1 $\mu$ s 10 Gbps Latency: < 3.4 $\mu$ s
Switching capacity	320 Gbps
Throughput	up to 112 Mpps
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
Power supply	JL086A X372 54VDC 680W 100-240VAC Power Supply, JL087A X372 54VDC 1050W 110-240VAC Power Supply
PoE capability	Maximum power rating: JL086A PSU (each): 513W JL087A PSU (each): 873W
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)
Weight	4.52 kg
Product dimensions	HPE Aruba Networking 2930M 24 HPE Smart Rate PoE Class 6 1-slot Switch 4.39 x 44.25 x 32.43 cm

## Product Comparison

Feature	R0M68A	R8R50A	C8R42B
Product Type	Layer 3 stackable access switch, 1U	Layer 3 switch (Aruba, similar campus/edge role)	Switch (HPE/Aruba-related, switching platform)



Feature	R0M68A	R8R50A	C8R42B
Fixed Ports	(24) 1/2.5/5GBASE-T HPE Smart Rate PoE Class 6	Model-dependent, typically 1G/10G access ports	Model-dependent, typically 1G/10G switching ports
PoE Capability	Up to 60W per port, up to 1440W PoE budget (with 2 PSUs)	PoE/PoE+ support on selected models (check SKU details)	PoE support available on certain variants (check SKU details)
Uplink Options	(1) modular uplink slot supporting 10GbE/40GbE	Fixed or modular uplinks depending on model	High-speed uplinks depending on configuration
Stacking	Modular stacking, up to 10 chassis	Stacking support on selected Aruba switch series	Stacking/IRF-like features depending on platform
Switching Capacity	320 Gbps	High switching capacity appropriate for enterprise edge	High switching capacity for data/edge use cases
Management	Aruba Central, AirWave, CLI, Web, SNMP, REST, OpenFlow	Aruba Central and on-prem tools, CLI, Web, SNMP	Standard enterprise switch management (CLI, SNMP, web)
Ideal Scenario	High-density Wi-Fi multi-gigabit AP access, power-hungry IoT at the edge	General enterprise or campus edge with Aruba ecosystem	Enterprise or data-center style switching where Aruba/HPE gear is used

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Rack mounting kit</li> <li>- Power cord (region specific)</li> <li>- Quick Installation Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- JL086A X372 54VDC 680W 100-240VAC Power Supply</li> <li>- JL087A X372 54VDC 1050W 110-240VAC Power Supply</li> <li>- SFP+/QSFP+ uplink modules</li> </ul>



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### Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

### UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



### References

[1] Hewlett Packard Enterprise. (2023). HPE Aruba Networking 2930M 24 HPE Smart Rate PoE Class 6 1-slot Switch R0M68A Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/PSN1011064362USEN.pdf>