

# Aruba R8R45A

## Datasheet

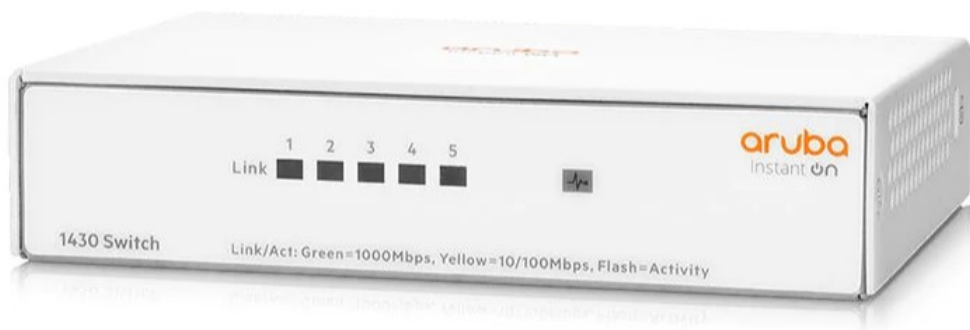
## Product Overview

- Aruba's HPE Networking Instant On 1430 series targets small business users seeking seamless, cost-effective network access.
- It is ideal for small offices, retail shops, and home-based businesses that require dependable plug-and-play connectivity without IT support.
- With 8 RJ-45 Gigabit Ethernet ports, a 16 Gbps switching capacity, and 11.9 Mpps throughput, it ensures steady and fast data flow.
- The fanless, unmanaged design offers silent operation, while auto MDI/MDI-X and PoE options enhance flexibility for different setups.
- Deployment is effortless with its plug-and-play function and automated features, eliminating the need for ongoing maintenance.
- This switch enables small businesses globally to connect vital devices simply, supporting business continuity across any scenario.

## Product Highlights

- **Flexible Deployment Options:** Available in 5-, 8-, 16-, 24-, and 26-port models to suit various small business and home office needs.
- **Power over Ethernet (PoE) Support:** Up to 124W PoE power for access points, IP phones, and IoT devices, ensuring easy device deployment.
- **Zero Configuration Required:** Plug-and-play installation with no need for setup or management, saving time and IT resources.
- **Energy Efficient and Silent:** Fanless operation with Energy Efficient Ethernet ensures low power use and quiet performance in sensitive environments.

## Detailed Features



R8R45A

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Component	Specification
Ports	8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10 BASE-T, IEEE 802.3u Type 100 BASETX, IEEE 802.3ab Type 1000 BASE-T)
Duplex Modes	10 BASE-T/100 BASE-TX: half or full; 1000 BASE-T: full only
Switching Capacity	16 Gbps
Packet Forwarding Rate	11.90 Mpps
Mounting	Table-top, wall-mount, under-table supported



## Unmanaged Simplicity for SMBs

The HPE Networking Instant On Switch 1430 offers robust Layer 2 Gigabit Ethernet connectivity, catering to small businesses seeking minimal management. With seven PoE and non-PoE model options, users can select the right port and power configuration for their needs, ensuring a tailored networking solution for every deployment.

## High PoE Power Delivery

PoE models offer up to 30W per port for Class 4 devices such as wireless access points, IP phones, and cameras. The 8-port and 16-port PoE configurations provide 64W and 124W budgets, supporting modern IoT device requirements and ensuring reliable power distribution throughout the network.

## Versatile Uplink Options

The 26-port variant includes two dedicated 1G SFP fiber uplinks. These can be utilized for long-distance connections using fiber transceivers, expanding network reach and delivering flexibility for growing businesses or those using mixed copper and fiber environments.

## Plug-and-Play Operation

All models are designed for effortless deployment with zero configuration. Automated PoE support powers compatible devices, while no ongoing administration is needed. Users simply connect the switch, and the network is ready for use, minimizing installation time and complexity.

## Flexible Mounting and Cabling

The series supports multiple installation options such as table-top, wall, under-table, and rackmount (depending on the model). Auto MDI/MDI-X adjusts for straight-through or crossover cables on all ports, removing the guesswork from setup and allowing for quick deployment in various physical layouts.

## Energy Efficient and Silent Design

Incorporating Energy Efficient Ethernet (EEE) compliant with 802.3az, the switches reduce energy usage during low data flow periods. The fanless design ensures silent operation, making it suitable for places where low noise is critical such as meeting rooms or reception areas.

## Traffic Optimization and Quality of Service

Quality of Service (QoS) prioritizes time-sensitive packets like voice and video using DSCP or IEEE 802.1p. Flow control and jumbo frame support (up to 9216 bytes) enhance large data transfer efficiency, providing an optimal network experience and protecting against packet loss.

## Reliable Performance in Any Environment

The 1430 series delivers dependable performance with a robust MTBF of over 416 years, wide operating temperature and humidity ranges, and compliance with international safety and emissions standards. This reliability ensures consistent networking for small businesses across diverse geographical and climate conditions.

## Technical Specifications

### Product Specifications

Feature	Value
Model	R8R45A
I/O Ports	8 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 Modes	10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Dimensions	138(d) x 157(w) x 37(h) mm
Weight	1.30 lb (0.59 kg)
Processor Memory	128Kb EEPROM; Packet buffer size: 2.0 Mb
100 Mb Latency	< 2.7 $\mu$ Sec
1000 Mb Latency	< 1.80 $\mu$ Sec
Throughput	11.90 Mpps
Switching Capacity	16 Gbps



Feature	Value
MAC Address Table Size	8192 entries
MTBF (years)	416.2
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Humidity	15% to 95% @ 104°F (40°C) non-condensing
Storage Temperature	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
Storage Humidity	15% to 95% @ 149°F (65°C) non-condensing
Operating Altitude	up to 10,000 ft (3 km)
Acoustics	Fanless
Frequency	50Hz/60Hz
AC Voltage	100-240VAC
Current	0.3A (12VDC - 1A)
Max Power Rating	12W
Idle Power	1.7W
PoE Power	—
Power Supply	External Power Adapter
Safety Certifications	EN/IEC 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013; EN/IEC 62368-1, 2nd. & 3rd. Ed.; UL 62368-1, 3rd. Ed.; CAN/CSA C22.2 No. 62368-1, 3rd. Ed.; EN/IEC 60825-1:2018
Emissions	EN 55032:2015/ CISPR 32, Class B; FCC CFR 47 Part 15: 2018, Class B; ICES-003, Class B; VCCI-32, Class B; CNS 13438, Class B; KS C 9832, Class B; AS/NZS CISPR 32, Class B
Immunity	BS/EN 55035, CISPR 35, KS C 9835
Generic	EN 55035, CISPR 35
EN/IEC 61000-4-2	ESD
EN/IEC 61000-4-3	Radiated
EN/IEC 61000-4-4	EFT/Burst
EN/IEC 61000-4-5	Surge
EN/IEC 61000-4-6	Conducted
EN/IEC 61000-4-8	Power frequency magnetic field
EN/IEC 61000-4-11	Voltage dips and interruptions
EN/IEC 61000-3-2	Harmonics
EN /IEC 61000-3-3	—



Feature	Value
Device Management	Unmanaged
Mounting	Supports table-top, wall-mount (ports up/down), under-table mounting using base surface holes

## Product Comparison

Feature	R8R45A	C1000-8FP-E-2G-L	MS120-8FP-HW
Switching Capacity	16 Gbps	20 Gbps	20 Gbps
Forwarding Rate	11.90 Mpps	14.88 Mpps	14.88 Mpps
Ports	8 x 10/100/1000BASE-T	8 x 10/100/1000BASE-T	8 x 10/100/1000BASE-T
PoE Budget	–	125W	124W
PoE per Port	–	30W	30W
Device Management	Unmanaged	Web/UI, Smart Managed	Cloud Managed
Uplink Ports	None	2 x 1G SFP	2 x 1G SFP
Fan design	Fanless	Fanless	Fanless
Mounting Options	Table-top, wall, under-table	Desktop, wall, rack	Desktop, wall, rack
Energy Efficiency	EEE (802.3az), fanless	EEE, fanless	EEE, fanless

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Adapter</li> <li>- Mounting Bracket</li> <li>- Quick Installation Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver</li> <li>- PoE Injector</li> </ul>



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### UK Branch

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## References

[1] HPE (Aruba). (2024). HPE Networking Instant On Switch 1430 Series Data Sheet. Retrieved from <https://www.hpe.com/psnow/doc/PSN1014671581UKEN>