

Aruba R8R46A

Datasheet

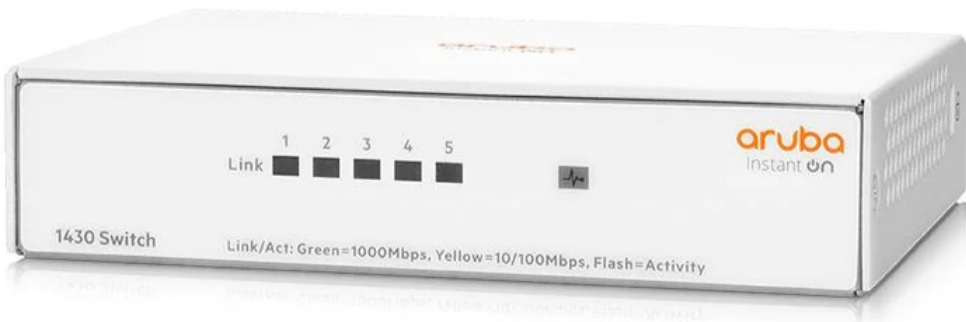
Product Overview

- Aruba Instant On 1430 Switch Series delivers reliable, high-performance Layer 2 Gigabit Ethernet switching for small business networks.
- Designed for small offices, home offices, startups, and budget-conscious businesses needing fast, easy, and dependable connectivity.
- Key specs include 8 RJ-45 autosensing 10/100/1000 PoE ports, 64W PoE power budget, and a fan-less design for silent operation.
- Plug-and-play installation, zero configuration, and fully automated features simplify every deployment.
- Supports Power over Ethernet (PoE) for access points, VoIP phones, and cameras, with Quality of Service (QoS) for improved traffic handling.
- Perfect for growing SMBs, the R8R46A offers cost-effective, maintenance-free network integration and seamless resource sharing.

Product Highlights

- **Simplified Deployment:** Plug-and-play operation requires no setup, delivering immediate network connectivity for printers, access points, and workstations.
- **Flexible Power over Ethernet:** Up to 124W PoE capability supports APs, phones, and IoT devices, simplifying power and data wiring.
- **Zero Ongoing Maintenance:** Unmanaged design means no configuration or management, reducing IT needs and support costs.
- **Energy Efficient and Silent:** Fan-less models, with Energy Efficient Ethernet, consume less power and run quietly in any work environment.

Detailed Features



R8R46A

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Component	Specification
Ports	8 × RJ-45 autosensing 10/100/1000 Class 4 PoE
PoE Standard	IEEE 802.3af/at (Class 4 PoE)
Supported Duplex	10/100: half or full, 1000: full only
Input Power	External Power Adapter
Form Factor	Fanless, desktop or rack mount



Gigabit Ethernet for Small Businesses

The Aruba Instant On 1430 Switch Series provides unmanaged Layer 2 Gigabit Ethernet connectivity, tailored for SMBs seeking reliable, simple network solutions. With models in various port sizes and PoE/non-PoE options, it easily adapts to diverse office requirements while offering dependable wired access.

Comprehensive PoE Support

PoE variants support up to 30W per port for Class 4 devices, such as wireless APs, IP phones, and surveillance cameras. The 8-port and 16-port PoE switches offer 64W and 124W budgets, ensuring seamless integration of modern IoT endpoints to scale with evolving business needs.

Dedicated Fiber Uplinks

The 26-port model includes dual 1G SFP uplinks for long-distance fiber connections, enabling up to 28 Ethernet ports per device. This versatility supports distributed office layouts or extended network coverage without sacrificing speed or reliability.

Lifetime Support and Community Access

Users benefit from Aruba Instant On's Limited Lifetime support, including 24x7 phone for 90 days and chat support for the warranty duration. Lifetime online community support ensures ongoing access to expert help and product updates.

Zero Configuration Simplicity

All Aruba Instant On 1430 switches operate with true plug-and-play ease, eliminating the need for configuration or ongoing administration. Integrated PoE ensures automated power management for devices, reducing IT workload and accelerating network rollouts.

Flexible Mounting Options

Installation is flexible: tabletop, under-table, wall, and rack-mounting are all supported, enhancing deployment in varied environments. Auto MDI/MDI-X on all ports simplifies cabling whether using straight-through or crossover types.

Energy Efficiency and Quiet Design

Compliant with Energy Efficient Ethernet (802.3az), the fanless hardware ensures silent operation and reduces power costs, making the switch ideal for office or noise-sensitive spaces.

Optimized Traffic and Jumbo Frame Support

Quality of Service (QoS) prioritizes critical voice and video traffic, while support for jumbo frames (up to 9216 bytes) boosts transfer efficiency. Flow control techniques prevent packet loss during congestion, maintaining stable network performance.

Technical Specifications

Product Specifications

Feature	Value
I/O Ports	8 RJ-45 autosensing 10/100/1000 Class 4 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)
Ports Duplex Support	10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Dimensions	150(d) x 177(w) x 37(h) mm
Weight	1.70 lb (0.77 kg)
Processor	128Kb EEPROM
Packet Buffer Size	2.0 Mb
Performance 100 Mb Latency	< 2.7 µSec
Performance 1000 Mb Latency	< 1.80 µSec
Throughput	11.90 Mpps
Switching Capacity	16 Gbps
MAC Address Table Size	8192 entries



Feature	Value
MTBF	131.1 years
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
Altitude	up to 10,000 ft (3 km)
Acoustic Design	Fanless
Frequency	50Hz/60Hz
AC Voltage	100-240VAC
Current	2A (54VDC - 1.58A)
Max Power	90W
Idle Power	4.1W
PoE Power	64W Class 4 PoE
Power Supply	External Power Adapter
Safety Compliance	EN/IEC 60950-1:2006+A11+A1+A12+A2, EN/IEC 62368-1, UL 62368-1, CAN/CSA C22.2, EN/IEC 60825-1
Emissions & Immunity	EN 55032, FCC 47 Part 15, ICES-003, VCCI-32, CNS 13438, KS C 9832, AS/NZS CISPR 32, BS/EN 55035, CISPR 35, KS C 9835, EN/IEC 61000 series
Device Management	Unmanaged
Mounting	Rack/tabletop/wall/under-table; must be mounted top surface up; not upside-down

Product Comparison

Feature	R8R46A	C1000-8T-E-2G-L	C1000-24P-4G-L
Ports	8 × RJ-45 10/100/1000 PoE	8 × 10/100/1000BASE-T	24 × 10/100/1000BASE-T PoE
PoE Power Budget	64W	No PoE	185W
Switching Capacity	16 Gbps	20 Gbps	56 Gbps
MAC Address Table	8192 entries	8K entries	8K entries



Feature	R8R46A	C1000-8T-E-2G-L	C1000-24P-4G-L
Management	Unmanaged	Unmanaged	Unmanaged
Fan Design	Fanless	Fanless	Fanless
Mounting Options	Tabletop, wall, rack, under-table	Rack, wall, desktop	Rack, wall, desktop
Typical Application	Small business, PoE devices	Small office, edge connectivity	SMB requiring higher PoE and port density

Accessories

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



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References

[1] Aruba. (2023). HPE Networking Instant On Switch 1430 Series Datasheet. Retrieved from https://www.hpe.com/psnow/doc/a50004290enw.html?jumpid=in_pdp-psnow-qs