

Aruba R8R50A

Datasheet

Product Overview

- Aruba's HPE Networking Instant On series is purpose-built to deliver affordable, business-grade plug-and-play connectivity.
- Small offices and home businesses gain a stable, fast network connection with zero need for dedicated IT staff or complex setup.
- The R8R50A model features 26 autosensing 10/100/1000 RJ-45 ports, 2 SFP uplink ports, and non-blocking Layer 2 switching for Gigabit speeds.
- Fanless and energy-efficient, it supports silent operation ideal for noise-sensitive workspaces and delivers reliable performance.
- Zero-touch deployment with automatic configuration means truly seamless installation and maintenance, even for non-technical users.
- The Instant On brings straightforward wired access to printers, access points, and smart devices—helping small businesses focus on growth, not IT headaches.

Product Highlights

- **Flexible Port Options:** Choose from 5, 8, 16, 24, or 26-port models to suit different workspace network needs and expand easily.
- **Effortless Plug-and-Play:** Immediate deployment with zero configuration required. Designed for easy install in any small business environment.
- **Efficient Power and Operation:** Up to 124W PoE supplies power to APs, IP phones, and IoT devices, while fanless design ensures quiet and energy-saving use.
- **Reliable Network Experience:** Integrated QoS and flow control improve traffic performance, with safety certifications ideal for home and office networks.

Detailed Features



R8R50A

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Component	Specification
RJ-45 Ports	26 × 10/100/1000 autosensing (IEEE 802.3/802.3u/802.3ab)
SFP Ports	2 × 1GbE SFP uplink
Supported Duplex Modes	10/100: half/full, 1000: full only
Switching Layer	Layer 2, Unmanaged
Form Factor	Rack-mountable, fanless



Plug-and-Play Simplicity

The Aruba Instant On R8R50A delivers instant connectivity right out of the box, with zero configuration or technical training needed, ideal for small businesses and home offices that require reliable, easy-to-use networking without IT resources. Fully automated functions minimize installation and eliminate ongoing maintenance.

High-Speed Gigabit Performance

Equipped with 26 autosensing 10/100/1000 Mbps ports and 2 SFP uplinks, the switch offers true Gigabit speeds for all connected users. It guarantees fast data transfer and seamless access to network resources, supporting both high bandwidth and critical devices reliably and efficiently.

Optimized Power over Ethernet

Selected Instant On 1430 models support up to 30W PoE per port, accommodating the latest APs, VoIP phones, and surveillance cameras. This feature removes the need for extra power supplies, simplifying cabling and powering both IEEE 802.3af (15.4W) and IEEE 802.3at (30W) class 4 devices.

Fanless Design & Low-Power Operation

A fanless chassis ensures silent operation, making the switch ideal for quiet office and retail spaces. Coupled with Energy Efficient Ethernet, it reduces power consumption and promotes a greener work environment, while maintaining high network performance.

Advanced Network Protection

Aruba R8R50A comes equipped with safety certifications (EN/IEC, UL, CSA), robust surge protection, and forwarding of key traffic like EAPoL and STP BPDU frames, ensuring compatibility with access control and loop prevention mechanisms vital in business networks.

Jumbo Frame & Flow Control Support

With support for jumbo frames up to 9216 bytes and intelligent flow control, the switch optimizes bulk data transfer and reduces packet loss in congested scenarios. This is especially beneficial for file servers and media-rich business environments.

Reliable Connectivity & Robust MTBF

The switch features a MAC address table for 16,384 entries, a robust packet buffer, and an MTBF of over 171 years, promising smooth performance and long-term reliability in demanding deployments.

Unified Aruba Experience

Pairing seamlessly with other HPE Networking Instant On products, the switch delivers an end-to-end Wi-Fi and wired user experience, including voice and video traffic prioritization through integrated QoS, and industry-leading warranty and 24x7 chat support as standard.

Technical Specifications

Product Specifications

Feature	Value
RJ-45 Ports	26 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)
SFP Ports	2 SFP 1GbE ports
Supported Duplex Modes	10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Dimensions	225(d) x 388(w) x 44(h) mm
Weight	5.00 lb (2.27 kg)
Processor	32Mb Flash
Packet Buffer Size	12.0 Mb
100 Mb Latency	< 5.21 µSec
1000 Mb Latency	> 2.90 µSec
Throughput	41.68 Mpps

Feature	Value
Switching Capacity	56 Gbps
MAC Address Table Size	16384 entries
Reliability MTBF	171.9 years
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Relative Humidity	15% to 95% @ 104°F (40°C) non-condensing
Nonoperating Temperature	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
Nonoperating Relative Humidity	15% to 95% @ 149°F (65°C) non-condensing
Altitude	up to 10,000 ft (3 km)
Acoustics	Fanless
Frequency	50Hz/60Hz
AC Voltage	100-127VAC / 200- 240VAC
Current	0.4A / 0.3A
Maximum Power Rating	16.4W
Idle Power	8W
PoE Power	—
Power Supply	Internal Power Supply
Safety	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 A; FCC CFR 47 Part 15: 2018, Class A; ICES-003, Class A; VCCI-32, Class A; CNS 13438, Class A; KS C 9832, Class A; AS/NZS CISPR 32, Class A
Immunity	BS/EN 55035, CISPR 35, KS C 9835
Generic	EN 55035, CISPR 35
EN	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



Feature	Value
Harmonics	EN /IEC 61000-3-3
Device Management	Unmanaged

Product Comparison

Feature	R8R50A	C9200L-48T-4G-E	C9300-48U-E
Switching Capacity	56 Gbps	176 Gbps	136 Gbps
Forwarding Rate	41.68 Mpps	130.95 Mpps	202.38 Mpps
Ports	26 × 10/100/1000 RJ-45, 2 × 1G SFP	48 × 1G RJ-45, 4 × 1G SFP	48 × 1G RJ-45 PoE+, 4 × 1G/10G SFP+
PoE Support	No PoE on R8R50A	No PoE	PoE+ up to 740W
Layer	Layer 2 (Unmanaged)	Layer 2/3 (Managed)	Layer 2/3 (Managed)
Management	Unmanaged	Cisco IOS XE, CLI, Web UI, SNMP	Cisco IOS XE, CLI, Web UI, SNMP
Fan Design	Fanless	Internal Fans	Hot-swappable fans
Power Supply	Internal Power Supply	Fixed, field-replaceable	Field-replaceable, redundant options
Best for	Small business, SOHO, quiet locations	Enterprise access, large branches	Enterprise, campus access/aggregation

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Mounting Bracket - Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver - Rack Ear Kit - Cable Management Tray



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References

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