

Aruba R8R49A

Datasheet

Product Overview

- Aruba HPE Networking Instant On 1430 series represents a reliable entry-level switch line for small business and SOHO applications.
- Designed for offices, home workspaces, and budget-sensitive SMBs, it delivers fast and stable Ethernet connectivity without complex setup.
- This model supports 24 RJ-45 autosensing 10/100/1000 ports, provides fanless operation, and has strong Layer 2 Gigabit Ethernet capability.
- Plug-and-play simplicity means instant deployment with no configuration or ongoing maintenance required.
- Energy-efficient, silent running, and flexible PoE models allow powering various networked devices, including IP phones and cameras.
- Ideal for businesses needing hassle-free, always-on connectivity, the 1430 switches enhance productivity and reduce IT workload at an affordable price point.

Product Highlights

- **Plug-and-Play Simplicity:** Ready-to-deploy Layer 2 Gigabit switches offer model choices from 5 to 26 ports without setup hassles.
- **Power Over Ethernet (PoE):** Up to 124W total PoE budget powers access points, IP phones, and IoT devices directly from the switch.
- **Zero Management Required:** Unmanaged, fully automated operation delivers out-of-the-box performance and requires no ongoing administration.
- **Energy-Saving, Fanless Design:** Class B certified for small office safety; delivers lower power consumption and silent operation for any workspace.

Detailed Features



R8R49A

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Component	Specification
Port Type	24 RJ-45 autosensing 10/100/1000 ports
Ethernet Standard	IEEE 802.3 Type 10BASE-T, 802.3u 100BASE-TX, 802.3ab 1000BASE-T
Duplex Support	10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Switch Type	Unmanaged, plug-and-play
Form Factor	Fan-less, desktop/rackmount



No-Setup Deployment

The Aruba HPE Networking Instant On 1430 Switch series enables immediate connectivity with true plug-and-play operation, eliminating the need for any configuration or IT expertise. Businesses can simply connect devices and instantly access Gigabit networking.

Seamless Gigabit Connectivity

Delivering robust Layer 2 switching, the switch features twenty-four 10/100/1000 autosensing ports, ensuring high-speed connections for printers, access points, and computing devices essential to daily operations.

Silent & Energy Efficient

A fanless hardware design not only ensures quiet operation suitable for noise-sensitive areas like offices and retail, but also reduces energy consumption, leading to lower operational costs and longevity of the switch.

Comprehensive PoE Capability

Specific PoE models provide up to 30W per port, supporting class 4 devices such as wireless APs, surveillance cameras, and VoIP phones. This helps reduce cabling needs and streamlines device installation across diverse settings.

End-to-End Quality of Service

Built-in QoS features control and prioritize time-sensitive traffic, making the switch ideal for voice/video applications and improving overall network performance, especially in mixed-use environments.

Effortless Uplink & Cabling

Models with SFP uplinks support fiber connections for greater distance requirements. All access ports have auto-negotiation and Auto MDI/MDI-X, making cabling straightforward regardless of cable type.

High Reliability & MTBF

With an exceptional MTBF of nearly 200 years, the switch promises operational stability and peace of mind for mission-critical deployments, further enhanced by support for jumbo frames and flow control.

Strong Support and Warranty

Aruba delivers 24x7 expert chat support and an industry-leading limited lifetime warranty. Full lifecycle support protects investment and ensures network readiness.

Technical Specifications

Product Specifications

Feature	Value
I/O ports and slots	24 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: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Dimensions	225(d) x 340(w) x 44(h) mm
Weight	4.20 lb (1.91 kg)
Processor and Memory	128Kb EEPROM; Packet buffer size: 2.0 Mb
100 Mb latency	< 2.7 µSec
1000 Mb latency	< 1.80 µSec
Throughput (Mpps)	35.71 Mpps
Capacity	48 Gbps
MAC address table size	8192 entries
Reliability MTBF (years)	199.5
Operating temperature	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95% @ 104°F (40°C) non-condensing



Feature	Value
Nonoperating/ storage temperature	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
Nonoperating/ storage 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	0.3A / 0.2A
Maximum power rating	11.7W
Idle power	3.2W
PoE power	–
Power Supply	Internal Power Supply
Safety	EN/IEC 60950- 1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
Safety	EN/IEC 62368-1, 2nd. & 3rd. Ed.
Safety	UL 62368-1, 3rd. Ed.
Safety	CAN/CSA C22.2 No. 62368-1, 3rd. Ed.
Safety	EN/IEC 60825- 1:2018
Emissions	EN 55032:2015/ CISPR 32, Class A
Emissions	FCC CFR 47 Part 15: 2018, Class A
Emissions	ICES-003, Class A
Emissions	VCCI-32, Class A
Emissions	CNS 13438, Class A
Emissions	KS C 9832, Class A
Emissions	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



Feature	Value
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
Device Management	Unmanaged

Product Comparison

Feature	R8R49A	DES-1100-24	C1000-24P-4G-L
Port Count	24 × 10/100/1000Base-T	24 × 10/100Base-TX	24 × 10/100/1000Base-T
PoE Support	No	No	PoE, up to 195W
Switching Capacity	48 Gbps	12.8 Gbps	56 Gbps
Forwarding Rate	35.71 Mpps	9.52 Mpps	41.66 Mpps
Layer	Layer 2	Layer 2	Layer 2
Management	Unmanaged	Web Smart	Unmanaged
Fan Design	Fanless	Fanless	Fanless
MAC Address Table	8192 entries	8K entries	8K entries
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 50°C

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 - PoE Injector



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References

[1] HPE (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