

# Aruba R8R44A

## Datasheet



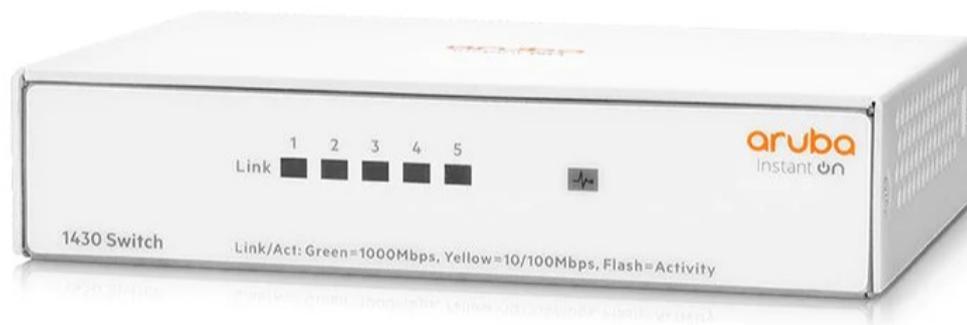
## Product Overview

- Aruba's HPE Networking Instant On Switch 1430 offers small businesses an affordable, reliable Layer 2 Gigabit Ethernet switching solution.
- The series is ideal for home offices, small offices, and startups that require robust network connectivity without IT complexity.
- Key hardware features include plug-and-play operation, a fanless design, and five autosensing 10/100/1000 Mbps RJ-45 ports for seamless LAN setup.
- No configuration is needed; all models are unmanaged and require zero ongoing maintenance, supporting instant deployment.
- Integrated Power over Ethernet (PoE) models supply up to 30W per port, making the switch suitable for powering modern IoT and VoIP devices.
- The 1430 series combines simple installation with dependable, energy-efficient performance, providing uninterrupted connectivity for small business growth.

## Product Highlights

- **Instant Deployment:** Plug-and-play unmanaged Layer 2 Gigabit switch available in 5-, 8-, 16-, 24-, and 26-port models for flexible installations.
- **Flexible Power Options:** Supports up to 124W of PoE to power wireless APs, IP phones, and IoT devices directly from the switch.
- **Zero Configuration:** No setup or network management required; designed for businesses without dedicated IT support.
- **Efficient and Silent Operation:** Fanless design with Energy Efficient Ethernet minimizes power use and noise, ideal for quiet office spaces.

## Detailed Features



### R8R44A

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Component	Specification
Ports	5 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10 BASE-T, IEEE 802.3u Type 100 BASE-TX, IEEE 802.3ab Type 1000 BASE-T)
Duplex Modes	10 BASE-T/100 BASE-TX: half or full; 1000 BASE-T: full only
Switch Type	Unmanaged Layer 2 Gigabit Ethernet
Mounting Options	Table-top, wall-mount, under-table
Power Supply	External Adapter



## Flexible Model Selection

The HPE Networking Instant On Switch 1430 series offers diverse PoE and non-PoE options, from 5 up to 26 ports, including uplink SFP variants. This flexibility meets unique deployment needs in offices and remote branches and accommodates various connected device types.

## Enhanced Power over Ethernet

PoE models deliver up to 30W per port, supporting critical devices like access points, VoIP phones, and surveillance cameras. The series provides 64W and 124W power budgets on 8-port and 16-port models for reliable operation of multiple endpoints.

## Plug-and-Play Operation

Setup is fully automated—just connect cables. There is no required configuration or ongoing management, reducing overhead for businesses with limited IT staff. The switch adapts to network demands automatically, ensuring hassle-free expansion.

## Versatile Installation Options

With support for table-top, rackmount, wall-mount, and under-table installation, the 1430 switch adapts to varied workspaces. This flexibility simplifies deployment in offices and small retail spaces with unique layout or cabling requirements.

## Energy Saving and Silent Design

All models support Energy Efficient Ethernet (EEE), automatically lowering power consumption in low-traffic conditions. The fanless build ensures silent operation, making these switches suitable for meeting rooms and quiet offices.

## Optimized Quality of Service

Quality of Service (QoS) ensures prioritization of time-sensitive traffic streams like VoIP or video calls. With DSCP and 802.1p classification, the switch maintains smooth communication and prevents disruption on shared networks.

## Superior Data Handling Features

Support for jumbo frames up to 9216 bytes enables efficient high-volume file transfers. Flow control mechanisms actively manage network congestion, reducing the risk of packet loss during peak usage periods.

## Simplified Cabling and Extension

Auto MDI/MDI-X technology automatically adjusts for different cable types, streamlining installation. Optional SFP transceivers on select models enable fiber uplinks for extended reach in larger environments or remote site backhaul.

# Technical Specifications

## Product Specifications

Feature	Value
I/O ports and slots	5 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	93(d) x 116(w) x 26(h) mm
Weight	0.60 lb (0.27 kg)
Processor and Memory	2Kb EEPROM; Packet buffer size: 1.0 Mb
100 Mb latency	< 3.81 μSec
1000 Mb latency	< 0.93 μSec
Throughput (Mpps)	7.44 Mpps
Capacity	10 Gbps
MAC address table size	8192 entries
Reliability MTBF (years)	525.8



Feature	Value
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/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	100-240VAC
Current	0.3A (12VDC - 1A)
Maximum power rating	12W
Idle power	1W
PoE power	–
Power Supply	External Power Adapter
Safety 1	EN/IEC 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
Safety 2	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 1	EN 55032:2015/ CISPR 32, Class B
Emissions 2	FCC CFR 47 Part 15: 2018, Class B; CES-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
Electrostatic Discharge	EN/IEC 61000-4-2
Radiated	EN/IEC 61000-4-3
EFT/Burst	EN/IEC 61000-4-4
Surge	EN/IEC 61000-4-5
Conducted	EN/IEC 61000-4-6
Power frequency magnetic field	EN/IEC 61000-4-8
Voltage dips & interruptions	EN/IEC 61000-4-11
Harmonics	EN/IEC 61000-3-2; EN/IEC 61000-3-3
Device Management	Unmanaged
Mounting options	Table-top, wall-mount (ports up/down), under-table; uses base surface mounting holes



## Product Comparison

Feature	R8R44A	C1000-8FP-E-2G-L	C1000-16P-E-2G-L
Switch Type	Unmanaged Layer 2	Unmanaged Layer 2	Unmanaged Layer 2
Port Count	5 x 10/100/1000Base-T	8 x 10/100/1000Base-T	16 x 10/100/1000Base-T
PoE Support	No	Yes, up to 120 W	Yes, up to 120 W
SFP Uplink Ports	None	2 x 1G SFP	2 x 1G SFP
MAC Address Table	8192 entries	8000 entries	8000 entries
Switching Capacity	10 Gbps	20 Gbps	32 Gbps
Fanless Design	Yes	Yes	Yes
Power Supply	External Adapter	AC Internal	AC Internal
Management	Unmanaged	Unmanaged	Unmanaged

## 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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## References

[1] Aruba. (2023). HPE Networking Instant On Switch 1430 Series Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/PSN1014671576MYEN>