



# Aruba Instant On 1430 Switch Series

Unmanaged switches designed for small businesses

Perfect for small offices and home offices

Technology brings new revenue opportunities, more effective communication, and improved productivity to businesses of all sizes. Yet it also poses daily challenges of configuration and maintenance, especially for small businesses who lack IT support. Small offices and home offices need reliable network connectivity that's fast, configuration-free, and affordable for even the most budget-strapped businesses.

The Aruba Instant On 1430 Switch Series is a plug-and-play unmanaged switch series for small businesses looking for simple, reliable, and low-cost network connectivity. These easy-to-use switches deliver Layer 2 Gigabit Ethernet switching capabilities — at an affordable price point — to help connect and share common resources like printers and access points, without any complicated network configuration. With plug-and-play operation, fully automated functions, zero ongoing maintenance, and Power over Ethernet (PoE) models, these switches deliver simple, reliable connectivity for the smallest SMBs and home offices.

## KEY FEATURES

Unmanaged Layer 2 Gigabit Ethernet switch series ready to deploy in 5-, 8-, 16-, 24-, and 26-port models

Up to 124W of PoE to power APs, IP Phones, and other IoT devices

No configuration or management needed

Plug-and-play with fully automated functions and zero ongoing maintenance

Quality of Service (QoS) and flow control for improved network efficiency

Fan-less with Energy Efficient Ethernet for low power consumption

Class B certified for home office networks (5 and 8 port models)

## HIGHLIGHTS



### Simplicity at its best

Plug-and-play switches that work right out of the box

Zero configuration required



### Reliable connectivity

Connect faster with Gigabit Ethernet speed

PoE to power devices like APs and IP phones



### We've got you covered

Industry-leading limited lifetime warranty and support

24 x 7 chat support for entire warranty period

The Aruba Instant On 1430 Switch Series includes seven switches in PoE and non-PoE configurations: one (1) 5-port, two (2) 8-port, two (2) 16-port, one (1) 24-port, and one (1) 26-port model with 2 SFP uplinks models. With the PoE models, you get up to 30W PoE per port power delivery for Class 4 PoE devices like access points, surveillance cameras

and VoIP phones. The 8-port and 16-port PoE models come with the power budget of 64W and 124W respectively to support the latest IoT devices. All switches are fan-less, making them ideal for acoustically sensitive areas, and unmanaged requiring no configuration (not managed by Aruba Instant On management).

## THE INSTANT ON DIFFERENTIATORS

### BETTER TOGETHER

Aruba Instant On products work together to provide a seamless Wi-Fi experience. Wired and wireless voice traffic is prioritized with high QoS priority end-to-end for optimal voice performance.

### INDUSTRY-LEADING SUPPORT AND WARRANTY

Expert-level support and industry-leading limited lifetime warranty are also included, along with chat support for the life of the product.

## KEY FEATURES

### PLUG-AND-PLAY

#### Gigabit Ethernet speeds

Supports half/full-duplex auto-negotiating capability on access ports that doubles the throughput of every port.

#### Long distance fiber connectivity

26-port model includes two 1G SFP fiber ports for uplinks and to support long distance connectivity using fiber transceivers, for a total of 28 Ethernet ports.

#### Simplified cabling

Automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports using Auto MDI/MDI-X.

#### Ethernet Alliance PSE Class 4 PoE Certification

Power Over Ethernet (PoE) functionality is supported on two 1430 models that provide up to 30 W per port, which allows support of Class 4 PoE or IEEE 802.3at-capable devices such as video IP phones, wireless access points, as well as any 15.4 W IEEE 802.3af compliant end device, thereby eliminating the need for additional electrical cabling and circuits.

#### EAPoL frames forwarding

802.1x EAP over LAN frames are forwarded through the switch so that clients can authenticate when the device gives connectivity between an authenticator and supplicants.

#### STP BPDU frames forwarding

The switch forwards the BPDU frames to make sure that Spanning Tree Protocol works correctly preventing loops in the topology.

| Brand | Standard      | Class | Min. power at the PSE port | Max. power at the PD port | Wire usage | EA Certified Logo |
|-------|---------------|-------|----------------------------|---------------------------|------------|-------------------|
| PoE 1 | IEEE 802.3 af | 0-3   | 15.4W                      | 13W                       | 2 pair     |                   |
|       | IEEE 802.3 at | 4     | 30W                        | 25.5W                     |            |                   |

### TRAFFIC OPTIMIZATION

#### Prioritize voice and video

Quality of Service provides priority of time-sensitive packets (like VoIP and video) over other traffic based on DSCP or IEEE 802.1p classification.

#### Flow control

Provides a flow-throttling mechanism propagated through the network to prevent packet loss at a congested node.

#### Jumbo frame support

Provides up to 9216 bytes frame size to improve the performance of large data transfers.

## KEY FEATURES

### ENERGY EFFICIENCY

#### Energy Efficient Ethernet (EEE)

Compliant with 802.3az standard requirements to save energy during periods of low data activity.

#### Fan-less operation

Requires less power to operate and enables quiet operation in acoustically sensitive environments.

### WARRANTY, SERVICE AND SUPPORT

Aruba Instant On Limited Lifetime Support provides 24X7 phone support for the first 90 days and chat support for the entire warranty period. Community support is included for the life of the product.

Refer to the Hewlett Packard Enterprise website at [hpe.com/networking/services](https://hpe.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

**TECHNICAL SPECIFICATIONS**

|                                 | Aruba Instant On 1430 5G Switch (R8R44A)   | Aruba Instant On 1430 8G Switch (R8R45A)   | Aruba Instant On 1430 8G Class4 PoE 64W Switch (R8R46A)  | Aruba Instant On 1430 16G Switch (R8R47A)   | Aruba Instant On 1430 16G Class4 PoE 124W Switch (R8R48A)   | Aruba Instant On 1430 24G Switch (R8R49A)   | Aruba Instant On 1430 26G 2SFP Switch (R8R50A)  |
|---------------------------------|--|--|--|---|---|---|---|
| <b>I/O ports and slots</b>      |  |  |  |   |   |   |   |
|                                 | 5 RJ-45 autosensing 10/100/1000 ports<br><br>(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 | 8 RJ-45 autosensing 10/100/1000 ports<br><br>(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 | 8 RJ-45 autosensing 10/100/1000 Class 4 PoE ports<br><br>(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 | 16 RJ-45 autosensing 10/100/1000 ports<br><br>(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 | 16 RJ-45 autosensing 10/100/1000 Class 4 PoE ports<br><br>(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 | 24 RJ-45 autosensing 10/100/1000 ports<br><br>(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 | 26 RJ-45 autosensing 10/100/1000 ports<br><br>(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<br><br>2 SFP 1GbE ports |
| <b>Physical Characteristics</b> |  |  |  |   |   |   |   |
| Dimensions                      | 93(d) x 116(w) x 26(h) mm  | 138(d) x 157(w) x 37(h) mm   | 150(d) x 177(w) x 37(h) mm   | 258(d) x 275(w) x 44(h) mm  | 260(d) x 275(w) x 44(h) mm  | 225(d) x 340(w) x 44(h) mm  | 225(d) x 388(w) x 44(h) mm  |
| Weight                          | 0.60 lb (0.27 kg)  | 1.30 lb (0.59 kg)  | 1.70 lb (0.77 kg)  | 3.80 lb (0.1.72 kg)   | 4.60 lb (2.09 kg)   | 4.20 lb (1.91 kg)   | 5.00 lb (2.27 kg)   |
| <b>Processor and Memory</b>     |  |  |  |   |   |   |   |
|                                 | 2Kb EEPROM; Packet buffer size: 1.0 Mb   | 128Kb EEPROM; Packet buffer size: 2.0 Mb   | 128Kb EEPROM; Packet buffer size: 2.0 Mb   | 128Kb EEPROM; Packet buffer size: 2.0 Mb  | 128Kb EEPROM; Packet buffer size: 2.0 Mb  | 128Kb EEPROM; Packet buffer size: 2.0 Mb  | 32Mb Flash; Packet buffer size: 12.0 Mb   |
| <b>Performance</b>              |  |  |  |   |   |   |   |
| 100 Mb latency                  | < 3.81 μSec  | < 2.7 μSec   | < 2.7 μSec   | < 2.7 μSec  | < 2.7 μSec  | < 2.7 μSec  | < 5.21 μSec   |
| 1000 Mb latency                 | < 0.93 μSec  | < 1.80 μSec  | < 1.80 μSec  | < 1.80 μSec   | < 1.80 μSec   | < 1.80 μSec   | > 2.90 μSec   |
| Throughput (Mpps)               | 7.44 Mpps  | 11.90 Mpps   | 11.90 Mpps   | 23.80 Mpps  | 23.80 Mpps  | 35.71 Mpps  | 41.68 Mpps  |
| Capacity                        | 10 Gbps  | 16 Gbps  | 16 Gbps  | 32 Gbps   | 32 Gbps   | 48 Gbps   | 56 Gbps   |
| MAC address table size          | 8192 entries   | 8192 entries   | 8192 entries   | 8192 entries  | 8192 entries  | 8192 entries  | 16384 entries   |
| Reliability MTBF (years)        | 525.8  | 416.2  | 131.1  | 269.8   | 126.1   | 199.5   | 171.9   |





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|--|---|---|---|---|---|---|---|---|
| <b>Mounting</b>                          |   |   |   |   |   |   |   |   |
| Mounting positions and supported racking | <p>Supports table-top mounting</p> <p>Supports wall-mounting with ports facing either up or down using base surface mounting holes</p> <p>Supports under-table mounting using base surface mounting holes</p> | <p>Supports table-top mounting</p> <p>Supports wall-mounting with ports facing either up or down using base surface mounting holes</p> <p>Supports under-table mounting using base surface mounting holes</p> | <p>Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included</p> <p>Supports table-top mounting</p> <p>Supports rack-mounting using the brackets provided</p> <p>Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided</p> <p>Supports under-table mounting using the brackets provided</p> <p>Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down</p> | <p>Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included</p> <p>Supports table-top mounting</p> <p>Supports rack-mounting using the brackets provided</p> <p>Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided</p> <p>Supports under-table mounting using the brackets provided</p> <p>Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down</p> | <p>Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included</p> <p>Supports table-top mounting</p> <p>Supports rack-mounting using the brackets provided</p> <p>Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided</p> <p>Supports under-table mounting using the brackets provided</p> <p>Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down</p> | <p>Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included</p> <p>Supports table-top mounting</p> <p>Supports rack-mounting using the brackets provided</p> <p>Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided</p> <p>Supports under-table mounting using the brackets provided</p> <p>Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down</p> | <p>Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included</p> <p>Supports table-top mounting</p> <p>Supports rack-mounting using the brackets provided</p> <p>Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided</p> <p>Supports under-table mounting using the brackets provided</p> <p>Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down</p> | <p>Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included</p> <p>Supports table-top mounting</p> <p>Supports rack-mounting using the brackets provided</p> <p>Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided</p> <p>Supports under-table mounting using the brackets provided</p> <p>Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down</p> |
| <b>Transceivers</b>                      |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   | <p>Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D)</p> <p>Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A)</p>  |   |

**STANDARDS AND PROTOCOLS****(APPLIES TO ALL PRODUCTS IN SERIES)**

| General Protocols |                             |
|-------------------|-----------------------------|
| IEEE 802.3i       | 10 Mbps Ethernet            |
| IEEE 802.3u       | 100Base-T Ethernet          |
| IEEE 802.3z       | 1000 Mbps Ethernet          |
| IEEE 802.3ab      | 1000Base-T                  |
| IEEE 802.3af      | PoE1 (PoE models only)      |
| IEEE 802.3at      | PoE1 (PoE models only)      |
| IEEE 802.3x       | Flow Control                |
| IEEE 802.3az      | Energy Efficient Ethernet   |
| RFC 2474          | QoS diffserv (DSCP) mapping |



## ORDERING INFORMATION

## Aruba Instant On 1430 Switch Series

| Part Number | Description                                      | Ports | Uplink Ports | Class 4 PoE Power Budget |
|-------------|--|-------|--------------|--------------------------|
| R8R44A      | Aruba Instant On 1430 5G Switch                  | 5     | -            | -                        |
| R8R45A      | Aruba Instant On 1430 8G Switch                  | 8     | -            | -                        |
| R8R46A      | Aruba Instant On 1430 8G Class4 PoE 64W Switch   | 8     | -            | 64W                      |
| R8R47A      | Aruba Instant On 1430 16G Switch                 | 16    | -            | -                        |
| R8R48A      | Aruba Instant On 1430 16G Class4 PoE 124W Switch | 16    | -            | 124W                     |
| R8R49A      | Aruba Instant On 1430 24G Switch                 | 24    | -            | -                        |
| R8R50A      | Aruba Instant On 1430 26G 2SFP Switch            | 26    | 2 SFP        | -                        |

## 3 and 5 year support options

| Product SKU | Support SKU | Support SKU Description   |
|-------------|-------------|---|
| R8R44A      | H36PQE      | Aruba 3 Year Foundation Care Next Business Day Exchange 1430 5G Switch Service                  |
| R8R44A      | H36PRE      | Aruba 5 Year Foundation Care Next Business Day Exchange 1430 5G Switch Service                  |
| R8R45A      | H36PSE      | Aruba 3 Year Foundation Care Next Business Day Exchange 1430 8G Switch Service                  |
| R8R45A      | H36PTE      | Aruba 5 Year Foundation Care Next Business Day Exchange 1430 8G Switch Service                  |
| R8R46A      | H36PVE      | Aruba 3 Year Foundation Care Next Business Day Exchange 1430 8G Class4 PoE 64W Switch Service   |
| R8R46A      | H36PWE      | Aruba 5 Year Foundation Care Next Business Day Exchange 1430 8G Class4 PoE 64W Switch Service   |
| R8R47A      | H36PXE      | Aruba 3 Year Foundation Care Next Business Day Exchange 1430 16G Switch Service                 |
| R8R47A      | H36PYE      | Aruba 5 Year Foundation Care Next Business Day Exchange 1430 16G Switch Service                 |
| R8R48A      | H36PZE      | Aruba 3 Year Foundation Care Next Business Day Exchange 1430 16G Class4 PoE 124W Switch Service |
| R8R48A      | H36QBE      | Aruba 5 Year Foundation Care Next Business Day Exchange 1430 16G Class4 PoE 124W Switch Service |
| R8R49A      | H36QCE      | Aruba 3 Year Foundation Care Next Business Day Exchange 1430 24G Switch Service                 |
| R8R49A      | H36QDE      | Aruba 5 Year Foundation Care Next Business Day Exchange 1430 24G Switch Service                 |
| R8R50A      | H36QFE      | Aruba 3 Year Foundation Care Next Business Day Exchange 1430 26G 2SFP Switch Service            |
| R8R50A      | H36QGE      | Aruba 5 Year Foundation Care Next Business Day Exchange 1430 26G 2SFP Switch Service            |

(Go to [Support Services Central](#) to locate Foundation Care SKUs for switches.)