## Overview

### Aruba Instant On 1430 Switch Series

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.

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).



**Aruba Instant On 1430 Switch Series Family**

### 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)

**Hewlett Packard Enterprise**

## Standard Features

### 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 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.

## 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.

## 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.

## Standard Features

**Jumbo Frame Support**

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

**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 **http://www.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.

## Configuration Information

### BTO Models

| Rule # | Description | SKU |
|---|---|---|
| 3 | Aruba Instant On 1430 5G Switch | R8R44A |
| | • 5 RJ-45 autosensing 10/100/1000 ports | |
| | Aruba Instant On 1430 5G Switch | R8R44A |
| | • No Localized Power Cord Selected | |
| 3 | Aruba Instant On 1430 8G Switch | R8R45A |
| | • 8 RJ-45 autosensing 10/100/1000 ports | |
| | Aruba Instant On 1430 8G Switch | R8R45A |
| | • No Localized Power Cord Selected | |
| 3 | Aruba Instant On 1430 8G Class4 PoE 64W Switch | R8R46A |
| | • 8 RJ-45 autosensing Class4 PoE 10/100/1000 ports | |
| | Aruba Instant On 1430 8G Class4 PoE 64W Switch | R8R46A |
| | • C15 PDU Jumper Cord (NA/MEX/TW/JP) | |
| | Aruba Instant On 1430 8G Class4 PoE 64W Switch | R8R46A |
| | • C15 PDU Jumper Cord (ROW) | |
| | Aruba Instant On 1430 8G Class4 PoE 64W Switch | R8R46A |
| | • NEMA L6-20P Cord (NA/MEX/JP/TW) | |
| | Aruba Instant On 1430 8G Class4 PoE 64W Switch | R8R46A |
| | • No Localized Power Cord Selected | |
| 3 | Aruba Instant On 1430 16G Switch | R8R47A |
| | • 16 RJ-45 autosensing 10/100/1000 ports | |
| | • 1U - Height | |
| | Aruba Instant On 1430 16G Switch | R8R47A |
| | • C15 PDU Jumper Cord (NA/MEX/TW/JP) | |
| | Aruba Instant On 1430 16G Switch | R8R47A |
| | • C15 PDU Jumper Cord (ROW) | |
| | Aruba Instant On 1430 16G Switch | R8R47A |
| | • NEMA L6-20P Cord (NA/MEX/JP/TW) | |
| | Aruba Instant On 1430 16G Switch | R8R47A |
| | • No Localized Power Cord Selected | |
| 3 | Aruba Instant On 1430 16G Class4 PoE 124W Switch | R8R48A |
| | • 16 RJ-45 autosensing Class4 PoE 10/100/1000 ports | |
| | • 1U - Height | |
| | Aruba Instant On 1430 16G Class4 PoE 124W Switch | R8R48A |
| | • C15 PDU Jumper Cord (NA/MEX/TW/JP) | |
| | Aruba Instant On 1430 16G Class4 PoE 124W Switch | R8R48A |
| | • C15 PDU Jumper Cord (ROW) | |
| | Aruba Instant On 1430 16G Class4 PoE 124W Switch | R8R48A |
| | • NEMA L6-20P Cord (NA/MEX/JP/TW) | |
| | Aruba Instant On 1430 16G Class4 PoE 124W Switch | R8R48A |
| | • No Localized Power Cord Selected | |
| 3 | Aruba Instant On 1430 24G Switch | R8R49A |
| | • 24 RJ-45 autosensing 10/100/1000 ports | |
| | • 1U - Height | |
| | Aruba Instant On 1430 24G Switch | R8R49A |
| | • C15 PDU Jumper Cord (NA/MEX/TW/JP) | |
| | Aruba Instant On 1430 24G Switch | R8R49A |
| | • C15 PDU Jumper Cord (ROW) | |
| | Aruba Instant On 1430 24G Switch | R8R49A |
| | • NEMA L6-20P Cord (NA/MEX/JP/TW) | |
| | Aruba Instant On 1430 24G Switch | R8R49A |

## Configuration Information

|  |  |  |
|---|---|---|
|  | • No Localized Power Cord Selected |  |
| 1, 3 | Aruba Instant On 1430 26G 2SFP Switch | R8R50A |
|  | • 26 RJ-45 autosensing 10/100/1000 ports |  |
|  | • 2 SFP 100/1000 Mbps ports |  |
|  | • min=0 \ max=2 SFP  Transceivers |  |
|  | • 1U - Height |  |
|  | Aruba Instant On 1430 26G 2SFP Switch | R8R50A |
|  | • C15 PDU Jumper Cord (NA/MEX/TW/JP) |  |
|  | Aruba Instant On 1430 26G 2SFP Switch | R8R50A |
|  | • C15 PDU Jumper Cord (ROW) |  |
|  | Aruba Instant On 1430 26G 2SFP Switch | R8R50A |
|  | • NEMA L6-20P Cord (NA/MEX/JP/TW) |  |
|  | Aruba Instant On 1430 26G 2SFP Switch | R8R50A |
|  | • No Localized Power Cord Selected |  |

**Configuration Rules**

| Rule # | Description |  |
|---|---|---|
| 1 | The following Transceivers install into this switch: |  |
|  | Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver | R9D16A |
|  | Aruba 1G SFP LC LX 10km SMF Transceiver | J4859D |
| 3 | – OCA Only: Required Custom Choice (Min1/Max1) |  |
|  | o Switch/Router/Power Supply to PDU Power Cord -  B2B in North America, Mexico, Taiwan, and Japan or B2C ROW. |  |
|  | o Switch/Router/Power Supply to Wall Power Cord - Localized Option (OCA Default for BTO) |  |
|  | o High Volt Switch/Router/Power Supply to Wall Power Cord -  B2E Option. (Offered only in North America, Mexico, Taiwan, and  Japan) |  |
|  | o No Power Cord - AC3 Option |  |

**Notes:**   OCA Only Model Selection Form - Aruba > Instant On > Switches:
Aruba Instant On 1430 Switch Series

## Transceivers

**SFP Transceivers**

| Rule # | Description | SKU |
|---|---|---|
|  | Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver | R9D16A |
|  | Aruba 1G SFP LC LX 10km SMF Transceiver | J4859D |

## Internal or External Power Supplies (Model Dependant)

**Notes:**   Power Supplies included

## Technical Specifications

| Aruba Instant On 1430 5G Switch (R8R44A) | |
|---|---|
| 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: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only |
| **Physical Characteristics** | |
| 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 |
| **Performance** | |
| 100 Mb latency | < 3.81µSec |
| 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 |
| **Environment** | |
| 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 |
| **Electrical Characteristics** | |
| 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 | • EN/IEC 60950- 1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>• EN/IEC 62368-1, 2nd. & 3rd. Ed.<br>• UL 62368-1, 3rd. Ed.<br>• CAN/CSA C22.2 No. 62368-1, 3rd. Ed.<br>• EN/IEC 60825- 1:2018 |
| Emissions | • EN 55032:2015/ CISPR 32, Class B<br>• FCC CFR 47 Part 15: 2018, Class B<br>• CES-003, Class B<br>• VCCI-32, Class B<br>• CNS 13438, Class B<br>• KS C 9832, Class B<br>• AS/NZS CISPR 32, Class B |
| 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 |

## Technical Specifications

| | |
|---|---|
| **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 |
| **Mounting** | |
| **Mounting positions and supported racking** | • Supports table-top mounting<br>• Supports wall-mounting with ports facing either up or down using base surface mounting holes<br>• Supports under-table mounting using base surface mounting holes |
| **Transceivers** | |

| **Aruba Instant On 1430 8G Switch** (R8R45A) | |
|---|---|
| **I/O ports and slots** | 8 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 |
| **Physical Characteristics** | |
| **Dimensions** | 138(d) x 157(w) x 37(h) mm |
| **Weight** | 1.30 lb (0.59 kg) |
| **Processor and Memory** | 128Kb EEPROM; Packet buffer size: 2.0 Mb |
| **Performance** | |
| **100 Mb latency** | < 2.7 µSec |
| **1000 Mb latency** | < 1.80 µSec |
| **Throughput (Mpps)** | 11.90 Mpps |
| **Capacity** | 16 Gbps |
| **MAC address table size** | 8192 entries |
| **Reliability MTBF (years)** | 416.2 |
| **Environment** | |
| **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 |
| **Electrical Characteristics** | |
| **Frequency** | 50Hz/60Hz |
| **AC voltage** | 100-240VAC |
| **Current** | 0.3A (12VDC - 1A) |
| **Maximum power rating** | 12W |
| **Idle power** | 1.7W |
| **PoE power** | – |
| **Power Supply** | External Power Adapter |
| **Safety** | • EN/IEC 60950- 1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>• EN/IEC 62368-1, 2nd. & 3rd. Ed.<br>• UL 62368-1, 3rd. Ed.<br>• CAN/CSA C22.2 No. 62368-1, 3rd. Ed.<br>• EN/IEC 60825- 1:2018 |

## Technical Specifications

| | |
|---|---|
| **Emissions** | • EN 55032:2015/ CISPR 32, Class B<br>• FCC CFR 47 Part 15: 2018, Class B<br>• ICES-003, Class B<br>• VCCI-32, Class B<br>• CNS 13438, Class B<br>• KS C 9832, Class B<br>• AS/NZS CISPR 32, Class B |
| **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 |
| **Harmonics** | EN /IEC 61000-3-3 |
| **Device Management** | Unmanaged |
| **Mounting** | |
| **Mounting positions and supported racking** | • Supports table-top mounting<br>• Supports wall-mounting with ports facing either up or down using base surface mounting holes<br>• Supports under-table mounting using base surface mounting holes |
| **Transceivers** | |

| **Aruba Instant On 1430 8G Class4 PoE 64W Switch** (R8R46A) | |
|---|---|
| **I/O ports and slots** | 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); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only |
| **Physical Characteristics** | |
| **Dimensions** | 150(d) x 177(w) x 37(h) mm |
| **Weight** | 1.70 lb (0.77 kg) |
| **Processor and Memory** | 128Kb EEPROM; Packet buffer size: 2.0 Mb |
| **Performance** | |
| **100 Mb latency** | < 2.7 µSec |
| **1000 Mb latency** | < 1.80 µSec |
| **Throughput (Mpps)** | 11.90 Mpps |
| **Capacity** | 16 Gbps |
| **MAC address table size** | 8192 entries |
| **Reliability MTBF (years)** | 131.1 |
| **Environment** | |
| **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 |
| **Electrical Characteristics** | |

## Technical Specifications

| | |
|---|---|
| **Frequency** | 50Hz/60Hz |
| **AC voltage** | 100-240VAC |
| **Current** | 2A (54VDC - 1.58A) |
| **Maximum power rating** | 90W |
| **Idle power** | 4.1W |
| **PoE power** | 64W Class 4 PoE |
| **Power Supply** | External Power Adapter |
| **Safety** | • EN/IEC 60950- 1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>• EN/IEC 62368-1, 2nd. & 3rd. Ed.<br>• UL 62368-1, 3rd. Ed.<br>• CAN/CSA C22.2 No. 62368-1, 3rd. Ed.<br>• EN/IEC 60825- 1:2018 |
| **Emissions** | • EN 55032:2015/ CISPR 32, Class B<br>• FCC CFR 47 Part 15: 2018, Class B<br>• ICES-003, Class B<br>• VCCI-32, Class B<br>• CNS 13438, Class B<br>• KS C 9832, Class B<br>• AS/NZS CISPR 32, Class B |
| **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 |
| **Harmonics** | EN /IEC 61000-3-3 |
| **Device Management** | Unmanaged |
| **Mounting** | |
| **Mounting positions and supported racking** | • Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included<br>• Supports table-top mounting<br>• Supports rack-mounting using the brackets provided<br>• Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided<br>• Supports under-table mounting using the brackets provided<br>• Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down |
| **Transceivers** | |

## Technical Specifications

### Aruba Instant On 1430 16G Switch (R8R47A)

| | |
|---|---|
| **I/O ports and slots** | 16 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 |
| **Physical Characteristics** | |
| **Dimensions** | 258(d) x 275(w) x 44(h) mm |
| **Weight** | 3.80 lb (01.72 kg) |
| **Processor and Memory** | 128Kb EEPROM; Packet buffer size: 2.0 Mb |
| **Performance** | |
| **100 Mb latency** | < 2.7 µSec |
| **1000 Mb latency** | < 1.80 µSec |
| **Throughput (Mpps)** | 23.80 Mpps |
| **Capacity** | 32 Gbps |
| **MAC address table size** | 8192 entries |
| **Reliability MTBF (years)** | 269.8 |
| **Environment** | |
| **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 |
| **Electrical Characteristics** | |
| **Frequency** | 50Hz/60Hz |
| **AC voltage** | 100-127VAC / 200- 240VAC |
| **Current** | 0.2A/0.2A |
| **Maximum power rating** | 7.9W |
| **Idle power** | 2.3W |
| **PoE power** | − |
| **Power Supply** | Internal Power Supply |
| **Safety** | <ul><li>EN/IEC 60950- 1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013</li><li>EN/IEC 62368-1, 2nd. & 3rd. Ed.</li><li>UL 62368-1, 3rd. Ed.</li><li>CAN/CSA C22.2 No. 62368-1, 3rd. Ed.</li><li>EN/IEC 60825- 1:2018</li></ul> |
| **Emissions** | <ul><li>EN 55032:2015/ CISPR 32, Class A</li><li>FCC CFR 47 Part 15: 2018, Class A</li><li>ICES-003, Class A</li><li>VCCI-32, Class A</li><li>CNS 13438, Class A</li><li>KS C 9832, Class A</li><li>AS/NZS CISPR 32, Class A</li></ul> |
| **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 |

## Technical Specifications

| | |
|---|---|
| **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 |
| **Mounting** | |
| **Mounting positions and supported racking** | <ul><li>Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included</li><li>Supports table-top mounting</li><li>Supports rack-mounting using the brackets provided</li><li>Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided</li><li>Supports under-table mounting using the brackets provided</li><li>Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down</li></ul> |
| **Transceivers** | |

| **Aruba Instant On 1430 16G Class4 PoE 124W Switch** (R8R48A) | |
|---|---|
| **I/O ports and slots** | 16 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); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only |
| **Physical Characteristics** | |
| **Dimensions** | 260(d) x 275(w) x 44(h) mm |
| **Weight** | 4.60 lb (2.09 kg) |
| **Processor and Memory** | 128Kb EEPROM; Packet buffer size: 2.0 Mb |
| **Performance** | |
| **100 Mb latency** | < 2.7 µSec |
| **1000 Mb latency** | < 1.80 µSec |
| **Throughput (Mpps)** | 23.80 Mpps |
| **Capacity** | 32 Gbps |
| **MAC address table size** | 8192 entries |
| **Reliability MTBF (years)** | 126.1 |
| **Environment** | |
| **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 |
| **Electrical Characteristics** | |
| **Frequency** | 50Hz/60Hz |
| **AC voltage** | 100-127VAC / 200- 240VAC |
| **Current** | 1.7A /0.8A |
| **Maximum power rating** | 147W |
| **Idle power** | 5W |
| **PoE power** | 124W Class 4 PoE |
| **Power Supply** | Internal Power Supply |

## Technical Specifications

| Safety | • EN/IEC 60950- 1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>• EN/IEC 62368-1, 2nd. & 3rd. Ed.<br>• UL 62368-1, 3rd. Ed.<br>• CAN/CSA C22.2 No. 62368-1, 3rd. Ed.<br>• EN/IEC 60825- 1:2018 |
|---|---|
| Emissions | • EN 55032:2015/ CISPR 32, Class A<br>• FCC CFR 47 Part 15: 2018, Class A<br>• ICES-003, Class A<br>• VCCI-32, Class A<br>• CNS 13438, Class A<br>• KS C 9832, Class A<br>• 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 |
| Harmonics | EN /IEC 61000-3-3 |
| Device Management | Unmanaged |
| Mounting | |
| Mounting positions and supported racking | • Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included<br>• Supports table-top mounting<br>• Supports rack-mounting using the brackets provided<br>• Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided<br>• Supports under-table mounting using the brackets provided<br>• Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down |
| Transceivers | |

| Aruba Instant On 1430 24G Switch (R8R49A) | |
|---|---|
| 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 |
| Physical Characteristics | |
| 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 |
| Performance | |
| 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 |

## Technical Specifications

| Environment | |
|---|---|
| **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 |
| **Electrical Characteristics** | |
| **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 <br> • EN/IEC 62368-1, 2nd. & 3rd. Ed. <br> • UL 62368-1, 3rd. Ed. <br> • CAN/CSA C22.2 No. 62368-1, 3rd. Ed. <br> • EN/IEC 60825- 1:2018 |
| **Emissions** | • EN 55032:2015/ CISPR 32, Class A <br> • FCC CFR 47 Part 15: 2018, Class A <br> • ICES-003, Class A <br> • VCCI-32, Class A <br> • CNS 13438, Class A <br> • KS C 9832, Class A <br> • 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 |
| **Harmonics** | EN /IEC 61000-3-3 |
| **Device Management** | Unmanaged |
| **Mounting** | |
| **Mounting positions and supported racking** | • Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included <br> • Supports table-top mounting <br> • Supports rack-mounting using the brackets provided <br> • Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided <br> • Supports under-table mounting using the brackets provided <br> • Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down |

## Technical Specifications

| Transceivers | |
|---|---|

| **Aruba Instant On 1430 26G 2SFP Switch** (R8R50A) | |
|---|---|
| **I/O ports and slots** | 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); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 SFP 1GbE ports |
| **Physical Characteristics** | |
| **Dimensions** | 225(d) x 388(w) x 44(h) mm |
| **Weight** | 5.00 lb (2.27 kg) |
| **Processor and Memory** | 32Mb Flash; Packet buffer size: 12.0 Mb |
| **Performance** | |
| **100 Mb latency** | < 5.21 µSec |
| **1000 Mb latency** | > 2.90 µSec |
| **Throughput (Mpps)** | 41.68 Mpps |
| **Capacity** | 56 Gbps |
| **MAC address table size** | 16384 entries |
| **Reliability MTBF (years)** | 171.9 |
| **Environment** | |
| **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 |
| **Electrical Characteristics** | |
| **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** | <ul><li>EN/IEC 60950- 1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013</li><li>EN/IEC 62368-1, 2nd. & 3rd. Ed.</li><li>UL 62368-1, 3rd. Ed.</li><li>CAN/CSA C22.2 No. 62368-1, 3rd. Ed.</li><li>EN/IEC 60825- 1:2018</li></ul> |
| **Emissions** | <ul><li>EN 55032:2015/ CISPR 32, Class A</li><li>FCC CFR 47 Part 15: 2018, Class A</li><li>ICES-003, Class A</li><li>VCCI-32, Class A</li><li>CNS 13438, Class A</li><li>KS C 9832, Class A</li><li>AS/NZS CISPR 32, Class A</li></ul> |
| **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 |

## Technical Specifications

| | |
|---|---|
| **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 |
| **Harmonics** | EN /IEC 61000-3-3 |
| **Device Management** | Unmanaged |
| **Mounting** | |
| **Mounting positions and supported racking** | • Mounts in an EIA standard 19 in telco rack or equipment cabinet. 2-post rack kit included<br>• Supports table-top mounting<br>• Supports rack-mounting using the brackets provided<br>• Supports wall-mounting with ports facing either up or down using either the base surface mounting holes, or the brackets provided<br>• Supports under-table mounting using the brackets provided<br>• Must be mounted top surface up. To prevent possible impact to long-term reliability, product should not be mounted upside-down |
| **Transceivers** | • Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D)<br>• Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A) |

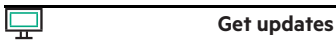| General Protocols | |
|---|---|
| IEEE 802.3i | 10 Mbps Ethernet |
| IEEE 802.3u | 100Base-T Ethernet |
| IEEE 802.3z | 1000 Mbps Ethernet |
| IEEE 802.3ab | 1000Base-T |
| IEEE 802.3af | PoE1 (PoE models only) |
| IEEE 802.3at | PoE1 (PoE models only) |
| IEEE 802.3x | Flow Control |
| IEEE 802.3az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

## Summary of Changes

| Date | Version History | Action | Description of Change |
|------|-----------------|--------|------------------------|
| 20-Mar-2023 | Version 5 | Changed | Configuration Information section was updated. |
| 12-Dec-2022 | Version 4 | Changed | Configuration Information section was updated. |
| 07-Nov-2022 | Version 3 | Changed | Technical Specifications section was updated. |
| 13-Sep-2022 | Version 2 | Changed | Configuration Information section was updated. |
| 01-Aug-2022 | Version 1 | New | New QuickSpecs |

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