

# HPE Aruba Instant On 1830 48G 24p Class4 PoE 4SFP 370W Switch(JL815A#ACC) - Alternative to Ubiquiti

Aruba Instant On 1830 Switch Series provides an easy to use and affordable wired solution for networks supporting IT, mobile, and cloud applications.



This affordable and easy-to-deploy smart-managed switch series is ideal for small businesses looking for cost-effective wired infrastructure to keep up with evolving network demands. These entry-level, smart-managed switches offer Layer 2 switching capabilities, Gigabit connectivity, along with flexible management modes - all at an affordable price point. With a flexible management dashboard, Power over Ethernet (PoE) options, and energy-efficient features, these switches deliver a solid business network for SMBs with limited budgets.

## Key Selling Points

- Simplify network deployment and management
- Keep your business protected with integrated security features
- Better energy efficient features for reducing environmental footprint

## Product Features

### Simplify network deployment and management

The Aruba Instant On 1830 Switch Series features easy-to-use, out-of-the-box, plug-and-play deployment. The switches can be deployed using two management modes - Instant On cloud-management (access via mobile app and/or web portal) and the local web GUI. Class 4 PoE options allow power to devices like IP phones, surveillance cameras, and access points without the cost of additional cabling.

### Keep your business protected with integrated security features

The Aruba Instant On 1830 Switch Series is enhanced with security features such as IEEE 802.1x, Global Storm Control, TPM (Trusted Platform module) based security, and VLANs to guard your network from unwanted or unauthorized access. Leverage 802.1X with a RADIUS server to verify only known and authorized users can access your network. Supports Automatic denial-of-service (DOS) monitors and protects the network against malicious attacks.

### Better energy efficient features for reducing environmental footprint

The Aruba Instant On 1830 Switch Series has Energy Efficient Ethernet (EEE), and is compliant with 802.3az standard requirements to save energy during periods of low data activity. Energy-efficient cooling includes variable speed fans operating only at the speed necessary to maintain operating temperature to reduce excess noise and power consumption. PoE Scheduling allows users to configure a specific day/time of the week (e.g. business hours) for Instant On switches to supply power to connected devices (e.g. surveillance cameras, access points, etc.).

## Main Specifications

Product Description	HPE Aruba Instant On 1830 48G 24p Class4 PoE 4SFP 370W Switch - switch - 48 ports - smart - rack-mountable
Device Type	Switch - 48 ports - smart
Enclosure Type	Rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	24 x 10/100/1000 + 24 x 10/100/1000 (PoE+) + 4 x Gigabit SFP
Power Over Ethernet (PoE)	PoE+
PoE Budget	370 W
Performance	Latency (100 Mbps): 5.2 $\mu$ s   Latency (1 Gbps): 2.8 $\mu$ s   Throughput: 77.37 Mpps   Switching capacity: 104 Gbps
MAC Address Table Size	16000 entries
Jumbo Frame Support	9216 bytes
Routing Protocol	IGMPv2, IGMP
Remote Management Protocol	SNMP 1, SNMP 2c, HTTP, HTTPS, TFTP, SCP, ICMP
Features	Flow control, auto-sensing per device, auto-negotiation, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, port mirroring, firmware upgradable, SNMP support, wall mountable, Spanning Tree Protocol (STP) support, event log, Quality of Service (QoS), Trusted Platform Module (TPM), Cable Diagnostics Function, LLDP support, DHCP client, Class of Service (CoS), cloud managed, 1.5MB packet buffer, Secure Copy (SCP), Link Aggregation, dual image support, Denial of

	Service (DoS) protection,Energy-Efficient Ethernet (EEE),BPDU Filter,loop protection,Global Storm Control,Port Scheduling
Compliant Standards	IEEE 802.3,IEEE 802.3u,IEEE 802.3z,IEEE 802.1D,IEEE 802.1Q,IEEE 802.3ab,IEEE 802.1p,IEEE 802.3af,IEEE 802.3x,IEEE 802.3ad (LACP),IEEE 802.1w,IEEE 802.3ac,IEEE 802.1ab (LLDP),IEEE 802.3at,IEEE 802.3az
Power	AC 100-240 V (50/60 Hz)
Dimensions (WxDxH)	44.3 cm x 35.1 cm x 4.39 cm
Weight	4.94 kg
Localisation	English / United Kingdom
Manufacturer Warranty	Limited lifetime warranty

## Extended Specification

### General

Device Type	Switch - 48 ports - smart
Enclosure Type	Desktop,rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	24 x 10/100/1000 + 24 x 10/100/1000 (PoE+) + 4 x Gigabit SFP
Power Over Ethernet (PoE)	PoE+
PoE Budget	370 W
Performance	Latency (100 Mbps):5.2 $\mu$ s Latency (1 Gbps):2.8 $\mu$ s Throughput:77.37 Mpps Switching capacity:104 Gbps
MAC Address Table Size	16000 entries
Jumbo Frame Support	9216 bytes
Routing Protocol	IGMPv2,IGMP
Remote Management Protocol	SNMP 1,SNMP 2c,HTTP,HTTPS,TFTP,SCP,ICMP
Encryption Algorithm	SSL
Features	Flow control,auto-sensing per device,auto-negotiation,VLAN support,auto-uplink (auto MDI/MDI-X),IGMP snooping,Syslog support,port mirroring,firmware upgradable,SNTP support,wall mountable,Spanning Tree Protocol (STP) support,event log,Quality of Service (QoS),Trusted Platform Module (TPM),Cable Diagnostics Function,LLDP support,DHCP client,Class of Service (CoS),cloud managed,1.5MB packet buffer,Secure Copy (SCP),Link Aggregation,dual image support,Denial of Service (DoS) protection,Energy-Efficient Ethernet (EEE),BPDU Filter,loop protection,Global Storm Control,Port Scheduling
Compliant Standards	IEEE 802.3,IEEE 802.3u,IEEE 802.3z,IEEE 802.1D,IEEE 802.1Q,IEEE 802.3ab,IEEE 802.1p,IEEE 802.3af,IEEE 802.3x,IEEE 802.3ad (LACP),IEEE 802.1w,IEEE 802.3ac,IEEE 802.1ab (LLDP),IEEE 802.3at,IEEE 802.3az
Processor	1 x ARM:800 MHz
RAM	512 MB SDRAM
Flash Memory	256 MB
Status Indicators	Port status,port duplex mode,link/activity,speed

### Expansion / Connectivity

Interfaces	24 x 1000Base-T RJ-45 4 x Gigabit LAN SFP 24 x 1000Base-T RJ-45 PoE+
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## Power

Power Device	Internal power supply
Voltage Required	AC 100-240 V (50/60 Hz)
Power Consumption Operational	462.5 Watt

## Miscellaneous

MTBF	83.5 years
Compliant Standards	IEC 61000-3-2,IEC 61000-3-3,EN 61000-3-3,ICES-003 Class A,CNS 13438 Class A,KN35,IEC/EN 61000-4-3,IEC/EN 61000-4-4,IEC/EN 61000-4-5,IEC/EN 61000-4-6,IEC/EN 61000-4-8,AS/NZS CISPR 32 Class A,KN32 Class A,IEC/EN 61000-4-11,IEC/EN 61000-4-2,EN 55032:2015,UL 62368-1 Second Edition,IEC/EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013,IEC/EN 60825-1:2014 Class 1,CISPR 32 Class A,EN 55035,CISPR 35,IEC 62368-1 Second Edition,CAN/CSA-C22.2 No. 62368-1 Third Edition,UL 62368-1 Third Edition,IEC 62368-1 Third Edition,CAN/CSA C22.2 No. 62368-1 Second Edition,FCC CFR47 Part 15 B Class A 2018
Localisation	English / United Kingdom

## Dimensions &Weight

Width	44.3 cm
Depth	35.1 cm
Height	4.39 cm
Weight	4.94 kg

## Manufacturer Warranty

Service &Support	Limited warranty - lifetime Technical support - live chat - lifetime Technical support - phone consulting - 90 days from date of purchase
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## Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	40 °C
Humidity Range Operating	15 - 95% (non-condensing)
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Humidity Range Storage	15 - 95% (non-condensing)

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