

Aruba IOn 1930 24G 4SFP+ Switch Aruba IOn 1930 24G 4SFP+ Switch UK en(JL682A#ACC)  
HPE Aruba Instant On 1930 24G 4SFP/SFP+ Switch - Switch - L3 - Managed - 24 x 10/100/1000  
+ 4 x 1 Gigabit / 10 Gigabit SFP+ - rack-mountable

Whether you own a cafe, a design firm or a tech startup, a reliable and secure network plays a critical role in the success of your business. And you need a network solution that gives you peace of mind, allowing you to focus on growing your business instead of managing problems with your network. Aruba Instant On makes it easy to keep network users happy, mobile and IoT devices connected, and your network secure.



The Aruba Instant On 1930 switches feature advanced, smart-managed, fixed-configuration Gigabit switches designed for small businesses that are easy-to-deploy and affordable. They're made to handle today's bandwidth-heavy applications like voice and video conferencing, enabling consistent connectivity to enhance performance. Using either the Instant On mobile app or the cloud-based web portal, you can quickly set up, monitor and manage the 1930 switch series from anywhere at any time.

Built-in security features protect your network from unauthorized access by allowing you to segment traffic and define access to each area of the network. And all of this is included in the price of the hardware - there are no hidden subscription or licensing fees.

## Key Selling Points

- Smart-managed layer 2+ Ethernet switch series ready to deploy
- Security controls let you define access in each area of your network, keeping your business data safe
- Convenient mobile app and web-based GUI for set up, management and troubleshooting
- Plug-and-Play switches that work together with Instant On APs right out of the box
- Mobile app to easily setup, monitor and manage your network
- Protect your network from unauthorized access with IEEE 802.1X and VLANs
- Automatic denial-of-service (DOS) monitors and protects the network against malicious attacks

## Product Features

### TPM-based security

Includes a Trusted Platform Module (TPM) for secure hardware-based generation and storage of cryptographic keys used for secure connection to the Instant On cloud portal.

### IEEE 802.1Q VLAN support

Support for up to 256 VLANs with a VLAN ID range of 2-4093 IEEE 802.1X access control Authentication of network users on a per port basis prior to permitting network access. Port authentication includes RADIUS assigned VLAN, dynamic VLAN creation, guest VLAN or into an unauthenticated VLAN. Automatic denial-of-service protection Monitors for malicious attacks and protects the network by blocking the attacks.

### Packet storm protection

Protects against unknown unicast, broadcast and multicast storms with user-defined thresholds.

### RADIUS

The switch supports RADIUS authentication with primary and backup server configuration.

### RADIUS accounting

A robust set of attributes and statistics are available for collecting information from the switch.

### Management VLAN ID

Provides secure management access to administrators in the specified VLAN.

### Link flap prevention

Minimizes the network disruption by automatically detecting and disabling ports that experience link flap events.

### Energy Efficient Ethernet (EEE)

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

### Auto-port shut down

The switch saves power by automatically shutting down power to inactive ports. Power is restored on a port upon link detection.

### Energy savings status

The switch provides an estimated cumulative energy savings due to green Ethernet features being enabled.

### Energy-efficient cooling

Includes variable speed fans operating only at the speed necessary to maintain operating temperature to reduce excess noise and power consumption.

### IEEE 802.3x Flow control

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

### Spanning Tree Protocol (STP)

Supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol (MSTP on local web).

#### **Loop protection**

If the switch detects a loop, it disables the source port from forwarding data packets originating from the switch to avoid broadcast storms.

#### **BPDU filtering**

Drops BPDU packets when STP is enabled globally but disabled on a specific port.

#### **Jumbo frame support**

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

#### **IGMP snooping v1/v2**

Improves network performance through multicast filtering, instead of flooding traffic on all ports.

#### **Link aggregation**

Groups together multiple ports up to a maximum of eight (8) ports per trunk automatically using Link Aggregation Control Protocol (LACP), or manually, to form a high-bandwidth connection to the network backbone that helps prevent traffic bottlenecks. The 8-port models support 4 trunks, 24-port models support 8 trunks, and 48-port models support 16 trunks.

#### **LLDP/LLDP-MED (Media Endpoint Discovery)**

Defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN for automatic configuration of network devices such as IP phones.

#### **Address Resolution Protocol (ARP)**

The ARP table displays all of the IP addresses that have been resolved to MAC addresses, either dynamically or through static entry configuration.

#### **Static IPv4 routing**

Supports manual routing configuration of up to 32 static routes.

#### **Auto-voice VLAN**

Recognizes IP phones and automatically assigns voice traffic to dedicated VLAN for IP phones.

#### **Access Control Lists (ACLs)**

Enables network traffic filtering by creating an ACL, adds rules and matches criteria to an ACL, and applies the ACL to permit or deny on one or more interfaces or a VLAN. Supports for 50 inbound IPv4 and MAC ACLs with up to 480 ACEs.

#### **IPv6 host**

Enables switches to be managed and deployed at the IPv6 network's edge.

#### **Rate limiting**

Sets and enforces per-port ingress traffic limits based on percentages or packets per second.

#### **ARP Attack prevention**

Dynamic ARP protection blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data.

#### **DHCP snooping**

Provides network security by filtering untrusted DHCP messages.

#### **Port security**

Ports in a port isolation group are restricted from forwarding Layer 2 traffic between ports in that group, providing data privacy and security.

#### **SCP and TFTP file transfer**

Provides different mechanisms for secure file transfer through SCP (Secure Copy Protocol) or TFTP.

#### **Dual image support**

Provide independent primary and secondary software images for backup while upgrading.

#### **User account management**

Password strength checking and aging feature provides enhanced security to user account administration to the local web management interface.

#### **Secure Sockets Layer (SSL)**

Encrypts all HTTP traffic, secures access to the local browser-based management of the switch.

#### **SNMPv1, v2c, and v3**

Facilitate management of the switch, as the device can be discovered and monitored from an SNMP management station.

#### **Remote monitoring (RMON)**

Remote monitoring (RMON) provides advanced monitoring and reporting capabilities for statistics, history, alarms and events. RMON data is retrieved from the switch through a network management platform over SNMP.

## **Main Specifications**

Product Description	HPE Aruba Instant On 1930 24G 4SFP/SFP+ Switch - switch - 28 ports - Managed - rack-mountable
Device Type	Switch - 28 ports - L3 - Managed
Enclosure Type	Rack-mountable 1U
Subtype	Gigabit Ethernet

Ports	24 x 10/100/1000 + 4 x 1 Gigabit / 10 Gigabit SFP+
Performance	Switching capacity: 128 Gbps  Throughput: 95.23 Mpps  Latency (1 Gbps): 2.4 µs  Latency (10 Gbps): 1.3 µs
Capacity	Link aggregation ports: 8  IPv4 routes (static): 32  VLANs supported: 256  Access Control Entries (ACEs) per ACL: 480  Packet buffer size: 1.5 MB
MAC Address Table Size	16000 entries
Jumbo Frame Support	9216 bytes
Routing Protocol	Static IP routing
Remote Management Protocol	SNMP 1,RMON,SNMP 3,SNMP 2c,HTTP,HTTPS,TFTP,RADIUS
Features	Flow control,DHCP support,ARP support,VLAN support,auto-uplink (auto MDI/MDI-X),IGMP snooping,IPv6 support,half duplex mode,full duplex mode,Spanning Tree Protocol (STP) support,Multiple Spanning Tree Protocol (MSTP) support,Access Control List (ACL) support,Quality of Service (QoS),Trusted Platform Module (TPM),LLDP support,Link Aggregation Control Protocol (LACP),Energy Efficient Ethernet,Class of Service (CoS),BPDU Filter
Compliant Standards	IEEE 802.3,IEEE 802.3u,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 802.1x,IEEE 802.1s,IEEE 802.1ab (LLDP),IEEE 802.3at,IEEE 802.3az
Power	AC 120/230 V (50/60 Hz)
Dimensions (WxDxH)	44.25 cm x 22.15 cm x 4.39 cm
Weight	2.41 kg
Localisation	English / United Kingdom
Manufacturer Warranty	Limited lifetime warranty

## Extended Specification

### General

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Features	Flow control,DHCP support,ARP support,VLAN support,auto-uplink (auto MDI/MDI-X),IGMP snooping,IPv6 support,half duplex mode,full duplex mode,Spanning Tree Protocol (STP) support,Multiple Spanning Tree Protocol (MSTP) support,Access Control List (ACL) support,Quality of Service (QoS),Trusted Platform Module (TPM),LLDP support,Link Aggregation Control Protocol (LACP),Energy Efficient Ethernet,Class of Service (CoS),BPDU Filter

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Processor	1 x ARM Cortex-A9:800 MHz
RAM	512 MB SDRAM
Flash Memory	256 MB
Status Indicators	Port status,power

### Expansion / Connectivity

Interfaces	24 x 10/100/1000 Base-T RJ-45 4 x 1/10Gbit LAN SFP+
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### Power

Power Device	Internal power supply
Voltage Required	AC 120/230 V (50/60 Hz)
Power Consumption Operational	22.6 Watt

### Miscellaneous

MTBF	158 years
Compliant Standards	VCCI,CISPR 24,EN 61000-3-2,IEC 61000-3-2,IEC 61000-3-3,IEC 61000-4-11,IEC 61000-4-2,IEC 61000-4-3,IEC 61000-4-4,IEC 61000-4-5,IEC 61000-4-6,IEC 61000-4-8,EN 61000-3-3,UL 60950-1,IEC 60950-1,EN 60950-1,CSA C22.2 No. 60950-1,EN 60825-1,CNS 13438,EN 55024:2010,FCC CFR47 Part 15 A,ICES-003 issue 6 Class A,UL 62368-1 Second Edition,CISPR 32 Class A,EN 62368-1:2014,EN 55032:2015+AC:2016,CISPR 35,SSL,IEC 62368-1:2014 Second Edition,EN 55035:2017
Localisation	English / United Kingdom

### Dimensions &Weight

Width	44.25 cm
Depth	22.15 cm
Height	4.39 cm
Weight	2.41 kg

### Manufacturer Warranty

Service &Support	Limited warranty - lifetime
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### Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	40 °C
Humidity Range Operating	15 - 95% (40 °C)
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Humidity Range Storage	15 - 95% (60 °C)