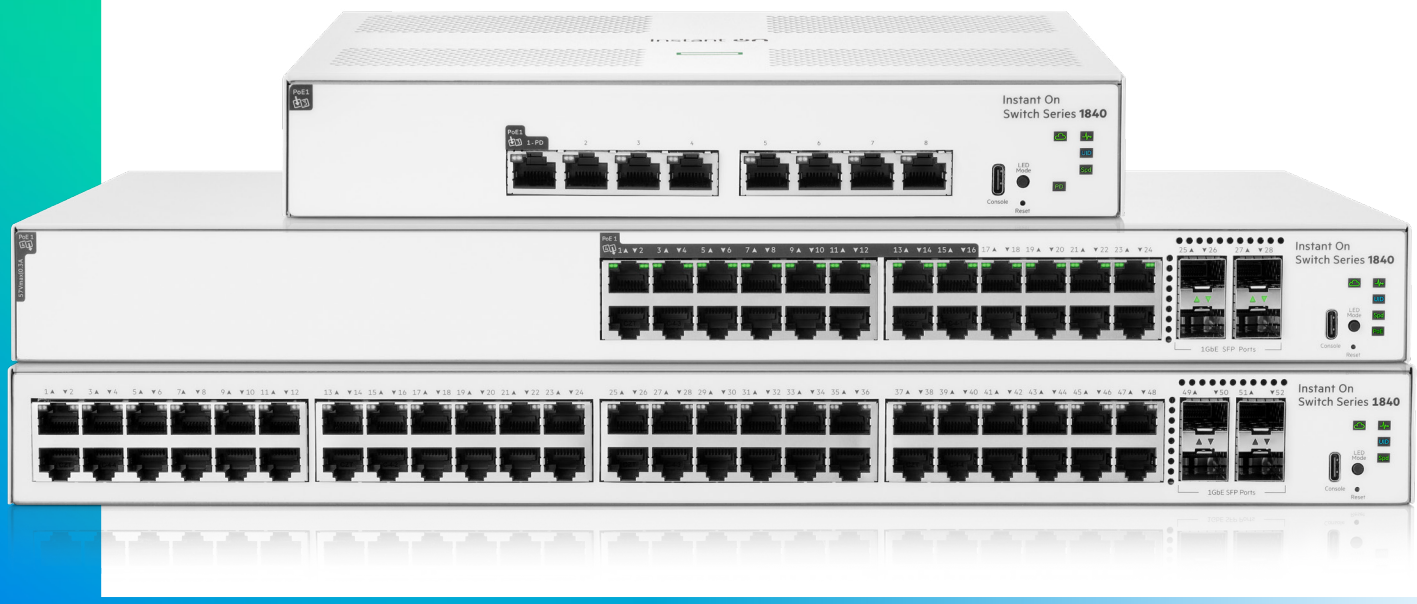
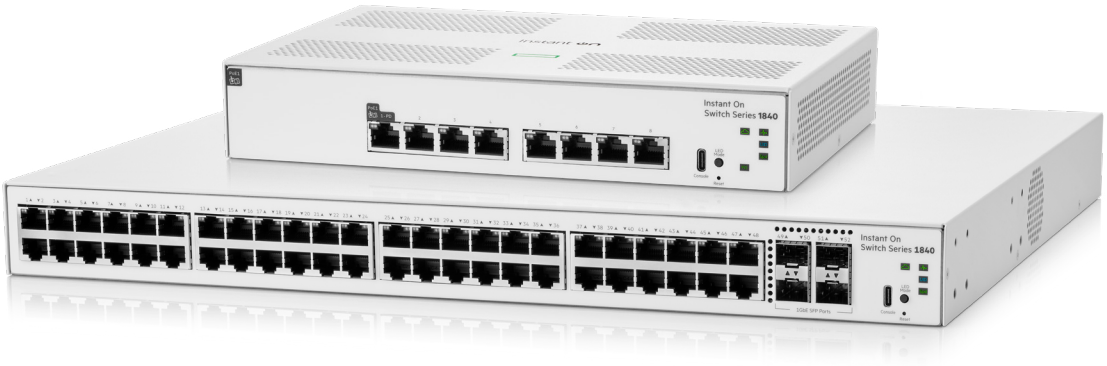
Data sheet



HPE Networking Instant On Switch Series 1840

Security, simplified configuration, and dependable reliability designed for the 1G access layer.

Budget-friendly smart switches with ample PoE budget and throughput for small offices, retail stores, or cafés



Product Overview

The HPE Networking Instant On Switch Series 1840 delivers a dependable, high-performance 1G access layer engineered for small and medium-sized businesses whose priority is predictable uptime over raw network expansion. Perfect for fast-paced environments—such as boutique daycares, busy neighborhood bodegas, and independent auto repair shops—this series provides a robust, cost-effective wired backbone.
Built to support local point-of-sale systems, connect back-office workstations, and provide guest Wi-Fi connectivity simultaneously, it is designed to support day to day business operations while incorporating enterprise-grade security features.

The Instant On 1840s are designed for low- to medium-sized SMBs that operate without a dedicated IT budget or on-site technical support. With Layer 2 Gigabit connectivity and Class 4 PoE (up to 30W per port), these switches power standard VoIP phones, secure door locks, and wireless access points. For maximum budget optimization, the 24- and 48-port PoE models feature half-port power allocations, giving businesses the right-sized deployment footprint they need without high cost. With native energy-saving engineering and zero hidden subscription or licensing fees, the Instant On Switch Series 1840 is designed to help organizations manage total cost of ownership throughout the product life cycle.

Infrastructure deployment is simple with intent-based cloud management, turning complex network setups into a streamlined, stress-free experience.
The Cloud Portal and mobile app make setup simple with step-by-step guidance. By integrating an AI assistant in the Cloud Portal administrators can configure certain policies using natural-language interactions supported by the embedded AI assistant. Network policies, port profiles, and automated schedules can be deployed through centralized management workflows.

Highlights

- **Flexible 1G access:** Cloud-managed flexible Layer 2 switch series for all traditional 1G access needs. Dedicated 1G SFP uplinks are designed to redundant fiber connectivity to distant aggregation cores.
- **High-Capacity Power:** Provides up to 370W of total PoE budget supporting Class 4 PoE designed to power high-efficiency Wi-Fi infrastructures and IoT endpoints.
- **Enterprise-Grade Security:** Help protect SMBs' network against certain cyber threats with advanced Access Control Lists (ACLs), IEEE 802.1X, and strict VLAN traffic segmentation.
- **Advanced Anti-Spoofing Protocols:** Embedded mitigation features—including DHCP Snooping, and IP Source Guard—are designed to mitigate certain network impersonation, spoofing, and man-in-the-middle attacks.
- **Hardware-Rooted Trust:** Enhanced system-level security featuring an embedded Trusted Platform Module (TPM 2.0), port security, and secure RADIUS/TACACS+ authentication without requiring separate appliances.
- **Eco-Friendly Operations:** Advanced energy-efficient design supporting Always-On PoE, Fast PoE, low-power modes, and real-time visibility via the centralized Cloud Portal power consumption dashboard.
- **Cloud-Managed Simplicity & Low opEx:** Manage anytime, anywhere via the Mobile App and Cloud Portal—allowing SMBs to quickly deploy, monitor, and manage their network
- **Predictable TCO:** No ongoing licensing or subscription fees. Includes a limited lifetime warranty and expert HPE support.

Product Features

HPE Networking Instant On Cloud Portal

Network management
Beyond the local device level management offered through web UI, the HPE Networking Instant On Switch Series 1840 is supported by the Instant On cloud management portal and Mobile App. All Instant On systems are supported with an End-to-End homogeneous and intuitive network level of management, ideal for an SMB.

Easy setup and management
The Instant On Mobile App allows SMB operators to set up, manage, and monitor Instant On switches, access points (APs), and gateways directly from their phone. Within the application, step-by-step instructions guide network administrators to install Instant On devices and get their network operational through guided setup workflows designed to simplify deployment. Cloud-based access enables remote management through supported Internet-connected devices.

Optimized user experience
The Instant On Mobile App enables common workflows for the complete Instant On network solution, making it easier to configure, monitor, and manage SMBs' network remotely without the need for additional cloud keys or VPN. SMB operators are alerted about new firmware availability, and the software upgrade can be conveniently scheduled during upcoming maintenance windows to keep SMBs' Instant On devices constantly current with latest enhancements.

Intent-based site management
Instant On cloud portal supports a policy engine enabling homogenous and end-to-end network level-controlled policies, enhancing the switch management. The policy engine enables users to control network access, prioritize traffic and schedule networks without deep networking expertise made even simpler with the embedded artificial intelligence assistant that understands natural language.

Port Profiles
Enable user admins to easily create predefined rules or profiles, which can be applied to one or multiple ports simultaneously for faster and simpler configuration - reducing deployment time, increasing productivity, and enabling rapid network scaling. Port Profiles include security, authentication, power schedules, power allocation settings, and more.

Better together with Instant On
Instant On automatically detects and applies the highest (critical) PoE priority to Instant On access points for uninterrupted power delivery and wireless network access. Wired and wireless voice traffic is prioritized with high QoS priority end-to-end for optimal voice performance.

Wired Client Classification
The Cloud portal can be used to add classification tags for wired client devices connected to the switch which is remembered if a client reconnects. These tags can vary from category, family and OS. For example a client can be classified as a computer, smart device, or VoIP, its family can be Windows, Linux®, or Apple Mac. Tags can also be made relevant to the deployment scenario for more intuitive client management.

Site inventory and topology view
The site inventory view shows all Instant On switches, access points and secure gateways on a single interface, and the topology view provides an intuitive visual representation of all Instant On devices connectivity in the network — allowing SMBs to quickly identify non-functioning devices and troubleshoot diligently. Network issues can be easily diagnosed with support for remote troubleshooting features.

24 Hour Event Manager and Health monitor
The cloud portal's health dashboard brings immediate and intuitive visibility of the SMB's present and past operations. With the 24hr health history diagram of their networks, SMB operators can easily navigate to view details at a chosen timeframe to investigate administrative events, network disruptions and disconnected clients.

Multi-site remote management
The cloud portal web interface and Mobile App facilitates the efficient remote management of multiple geographically distributed sites, making it ideal for businesses operating multiple branches such as stores with several point of sales in town. Each site is logically isolated and retains its own dedicated configuration, statistics, guest portal, and customizable user profiles. The platform allows the creation of up to 25 admin accounts per site with varying access permissions.

Two-Factor Authentication (2FA)
As the number of security breaches continues to rise, 2FA has become an essential tool to mitigate risk against compromised login credentials. Two-Factor Authentication (2FA) provides an additional layer of authentication, that is designed to make it more difficult for unauthorized parties to remotely access the network management plane and help protect sensitive customer information.

Built-in security
To help protect the integrity of the management plane, the architecture is designed using security principles applied to administrative and device interactions (2FA and embedded Trusted Platform Module in each HPE Networking Instant On 1840 switches).

No hidden fees
All the local and cloud management of switch features are included in the price of the hardware — there are no recurring subscriptions or licensing fees.

Physical Layer Connectivity

SFP fiber connectivity
Provides fiber connections for 1G uplinks and other connections across longer distances than copper cabling can support.

RJ-45 Connectivity
1G Ethernet access ports featuring automatic speed negotiation from 10Mbps up to 1 Gbps. These platforms provide seamless, native support for legacy devices and most access points to 1G

Auto MDI/MDI-X
Adjusts automatically for straight-through or crossover cables on all 10/100/1000 ports.

Auto-negotiating capability
Supports half- or full-duplex auto-negotiation on every port, without the need to program the port whenever a new device is connected.

Advanced PoE Management

Ethernet Alliance Class 4 PoE Certification
Select models provide dedicated ports with up to 30W of Power over Ethernet (PoE) per port, which allows support of Class 4 PoE (IEEE 802.3at) and 15.4W for standard IEEE 802.3af connected devices. The EA PoE Certification improves the user experience by enhancing productivity through minimized interoperability issues.

Always-On PoE
Prevents downtime by providing continuous PoE power delivery to connected devices even during soft reboots.

Quick PoE
Quick PoE delivers power to connected devices within a few seconds of when the switch receives AC power, allowing those devices to begin initializing in parallel with the switch's operating system.

Auto-PoE power configuration
The switch automatically assigns the required PoE power to a PD device based on Link Layer Discovery Protocol (LLDP).

PoE power allocation
The switch offers multiple PoE power management modes to optimize its overall PoE power budget (LLDP-MED automatic, class of PoE, or usage-based).

PoE scheduling
Allows administrators to configure a specific day/time of the week (e.g., business hours) for Instant On switches to supply power to connected devices.

PoE Threshold Alerts
The Cloud Portal alerts administrators if the PoE capacity of a device is above 80%, the PoE capacity is about to be exceeded, or a device is denied power.

PoE Power Consumption History Graph
The PoE power device dashboard monitors the PoE power consumption trends of powered devices over the last ten (10) days with timestamps of peak power consumption.

Layer 2 Switching

Flow control
With IEEE 802.3x flow control enabled, a slower switch can pause a faster switch to prevent buffer overload. The 1840 supports both symmetric and asymmetric flow control, allowing traffic to be paused or slowed as needed.

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 supported on local web only). Supports up to eight (8) instances of MSTP.

BPDU filtering
When enabled on an interface where Spanning Tree Protocol (STP) is disabled, it blocks the port from sending or receiving BPDUs to avoid any unexpected Spanning Tree modifications.

Loop protection
Allows loop detection in the network for switches that do not run spanning tree, or on which STP feature is disabled.

IGMP snooping
IGMP snooping allows the switch to forward IPv4 multicast traffic intelligently. With IGMP snooping enabled, the switch forwards traffic only to ports that request the multicast traffic. This prevents the switch from broadcasting traffic to all ports which affects network performance. IGMP v1, v2, v3 protocols are supported.

Link aggregation
Create high bandwidth connections to reduce network bottlenecks with LACP or static configuration up to 16 link aggregation groups (LAGs) with up to eight (8) ports each depending on models.

Link Layer Discovery Protocol (LLDP)
Advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications.

Media Endpoint Discovery (LLDP-MED)
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.

VLAN support
Offers some of the benefits of both bridging and routing. VLANs partition the network into logical segments, which provides better administration, security, and multicast traffic management. Supports up to 64 VLANs in 1-4093 VLAN IDs.

Port mirroring and Remote Switched Port Analyzer (RSPAN)
Create a copy of the traffic that the source interface handles and sends it to a probe port (also known as destination port). Multiple switch ports can be configured as source interfaces, with each port mirrored to the same diagnostic port. RSPAN is used to mirror traffic from source ports or VLANs on one switch to a destination port on a different switch.

Auto recovery
Automatically brings a port or service back online after it is shut down due to an error.

Auto VLAN
Allows automatic detection of any connected access points or security cameras, then places them into predefined VLANs with high-priority QoS.

Jumbo frame support
Supports up to 9216-byte frame size to improve the performance of large data transfers.

Security

Network Access Control

TPM-based security
Trusted Platform Module (TPM 2.0) provides a tamper-resistant, hardware-based root of trust. Generating, storing, and isolating cryptographic keys directly in secure silicon rather than software, the switches support authenticated, highly secure connection to the Instant On Cloud Portal and help mitigate risks associated with software-based spoofing, credential theft, and unauthorized device impersonation.

AAA-based Authentication and Accounting
Controls viewing and configuring authentication lists used for both switch management access and client network access. Each authentication list defines the sequence of methods – RADIUS, TACACS+, or the local database – used to validate user credentials.

RADIUS
Remote Authentication Dial-In User Service (RADIUS) servers enhance network security. A RADIUS client can contact one or more RADIUS servers for various Authentication and Accounting (AAA) services. Switches can connect to up to two (2) RADIUS servers.

RADIUS-assigned VLANs – Dynamic VLAN Creation
Automatically assigns users to the appropriate VLAN based on their identity and location. If desired, the switch can be configured to enable the dynamic creation of a VLAN if the VLAN does not already exist.

RADIUS accounting
RADIUS accounting logs user session activity, enabling administrators to track usage, troubleshoot issues, and maintain security visibility.

TACACS+
TACACS provides access control for networked devices via one or more centralized servers. Like RADIUS, this protocol simplifies authentication by using a single database that can be shared among many clients on the network.

Manager Access List
Allows administrators to restrict remote management access to approved devices and networks. The Management Access Control List allows configuration of rules, services, and profiles to manage the switch management access via TCP/IP.

Source Interface Configuration
Provides the user with the option to select any configured IP interfaces for management traffic, directing management traffic to/from the switch on those interfaces. TACACS+, RADIUS, SNMP, NTP and Remote SYSLOG support use of this feature.

Access Control Lists & Threat Prevention

Access Control Lists (ACLs)
Enable network traffic filtering by creating an ACL, adding rules and match criteria, and applying the ACL to one or more interfaces or a VLAN. Supports ingress/egress IPv4 and/or MAC ACLs with up to 2048 ACEs.

Port access control
Authentication of network users via IEEE 802.1X or MAC-Auth on a per-port basis prior to permitting network access. Port authentication includes RADIUS-assigned VLAN and dynamic VLAN creation.

Port security
Administrators can limit the number of MAC addresses that can be learned or configured on a port. With any other addresses outside that limit, the frames are discarded, preventing unknown devices from forwarding packets.

Local MAC-Auth
Allows a network device to authenticate clients based on their MAC address before granting network access. This method is commonly used for devices that cannot support 802.1X authentication, such as IP phones or legacy devices.

Spoofing Mitigation & Traffic Safeguards

Automatic Denial of Service (DoS) protection
Automatic DoS protection is a network security feature that detects and blocks traffic patterns that look like a DoS or Dynamic DoS (DDoS) attack.

Global Storm Control

Protects against conditions where incoming packets flood the LAN, causing network performance degradation. Also offers protection for unicast traffic with an unknown destination, and for broadcast and multicast traffic.

DHCP snooping
DHCP snooping acts like a firewall between untrusted hosts and DHCP servers. DHCP snooping distinguishes between untrusted interfaces connected to end users and trusted interfaces connected to the DHCP server or another switch.

IP Source Guard
Utilizes the DHCP snooping database to deny network access from untrusted sources.

Link flap prevention
Minimizes network disruption and instability by automatically detecting and disabling ports that experience link flap events – when a port repeatedly switches between link up and link down.

Quality of Service (QoS)

Class of Service (CoS)
The Class of Service (CoS) queueing feature allows direct configuration of certain aspects of switch queueing. This provides the desired QoS behavior for different types of network traffic.

Queue Scheduling
Configure parameters for the amount of bandwidth used by the queue, the queue depth during times of congestion, and the scheduling of packet transmission. Supported Queue Scheduler types are weighted round robin (WRR) and strict priority queuing (SP).

Traffic prioritization
Prioritizes time sensitive traffic such as VoIP and video based on DSCP or IEEE 802.1p markings, that is designed to detect higher forwarding precedence. Administrators may also remap priorities to elevate selected traffic into higher priority queues.

Traffic shaping
Sets the limit on how much traffic can leave a port. The limit on maximum transmission bandwidth smooths temporary traffic bursts over time, keeping the transmitted traffic rate within the interface's capacity.

Rate limiting
The switch supports configurable interface thresholds to limit broadcast, multicast, or unicast traffic based on bandwidth utilization or packet/frame rates. When these thresholds are exceeded, the switch can be programmed to shut down the port or to generate an SNMP trap.

Global Trust Mode
Global Trust Mode defines which traffic markings the switch trusts for QoS classification (IEEE 802.1p, DSCP, or Untrusted), enabling predictable and secure handling of prioritized traffic.

Performance and efficiency

Energy Efficient Ethernet (EEE)
Energy Efficient Ethernet (EEE) is an IEEE 802.3az standard that lowers power usage on Ethernet interfaces by placing the link into a low power idle state when traffic is minimal, then rapidly returning to full operation when needed.

Auto-port shutdown
When enabled, the port enters a low power state whenever the link is down and automatically reactivates upon detecting link activity. This reduces power consumption when no link partner is present, allowing the switch to conserve energy by disabling inactive ports.

Energy savings status
When Energy Efficient Ethernet (EEE) is enabled, the EEE status display shows estimated power and energy savings, as well as real-time power consumption.

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

LED Quiet Mode
LED Quiet Mode suppresses LED activity to reduce visual distraction and unwanted illumination in user environments. It also supports scheduled operation and contributes to more sustainable switch performance.

Fanless operation
The fanless architecture of our 8-port models delivers completely silent operation, making them ideal for noise-sensitive workplace environments.

Diagnostics

System Health dashboard
Monitors and reports the switch's temperature and fan status, generating syslog alerts when a fan malfunction occurs or when operating temperatures exceed recommended thresholds.

System Resource Usage
Displays real time CPU and memory utilization, along with total PoE power consumption for the switch, providing administrators with clear insight into system performance.

Top Events dashboard
Accessible throughout the local Web UI, the Top Events dashboard provides at-a-glance visibility into critical switch events and offers quick access to the most recent syslog notifications.

Buffered log
The switch maintains a buffered log containing timestamped records of operational events, configuration changes, system warnings, and error conditions, providing the administrator with essential data for monitoring, auditing, and troubleshooting.

Remote syslog
Remote syslog allows the administrator to view system events, alerts, and diagnostic messages from the switch on a centralized syslog server using the Syslog protocol. When the switch is managed through the cloud portal, it uses its own integrated event logging mechanism instead of remote syslog.

Cable Test
Provides a mechanism for the administrator to detect and report potential cabling faults – such as opens or shorts – on copper connections, and to identify the distance to the fault as well as the total cable length.

Ping IPv4 and IPv6
The switch supports ICMP echo requests (ping) using IPv4 or IPv6, enabling the administrator to verify network reachability, measure response time, and detect packet loss between devices.

Support file
Provides summary information in the local Web UI, including the current configuration, key statistics, and buffered log messages. A downloadable show-tech file is also available for deeper diagnostics and advanced troubleshooting.

IP Address Conflict
Use the IP Address Conflict feature to identify whether the device's configured IP address is duplicated by another device on the same LAN, quickly detecting and resolving conflicts.

IPv4 Device Tracking
Enables administrators to track IPv4 hosts connected to the switch's physical and logical interfaces, providing detailed information such as IP address, MAC address, VLAN, and interface.

Email Alerts
Enables administrators to automatically forward critical syslog events to one or more designated email recipients, ensuring timely awareness and rapid response to important system conditions.

Management

Localized & Device Level Management Tools

Simple local web GUI management
For managing individual switches, the intuitive Web GUI makes it simple, even for non-technical users. Supports up to five (5) HTTP and HTTP Secure (HTTPS) sessions.

Secure web-management sessions
Protects management sessions with HTTP Secure (HTTPS) encryption, preventing snooping of sensitive management information. Whether managed via local web GUI, or via the cloud, data between the switch and the management interface is encrypted and secure.

Secure Socket Layer (SSL)
Encrypts all HTTP traffic and secures access to the switch's local browser-based management. SSL is a security protocol that encrypts and authenticates communication between devices, designed to help protect the privacy and integrity of data in transit.

User account management
Password strength and aging checks provide enhanced security to user account administration to the local web management interface. Additionally, user account authentication can be done via RADIUS to access the web-interface.

Direct Ops Commands (DOCs)
DOCs allow SMB administrators basic setup, configuration, and troubleshooting for a faster start remotely via Telnet/SSH.

Getting Started, VLAN and ACL Wizards
The Getting Started Wizard streamlines initial provisioning by assisting with configuring IP addressing, device identification, and NTP time. The VLAN Wizard simplifies segmentation by creating VLAN IDs, assigning port membership, and mapping VLANs to interfaces. The ACL Wizard offers a guided, policy driven interface for defining IPv4 and MAC access rules, simplifying ACL setup. Together, these wizards accelerate deployments, reduce configuration errors, and establish a consistent, secure network baseline.

IPv6 host
Enables switches to be managed and deployed using the IPv6 protocol.

Configuration, Scripting & Firmware Operations

Dual image support
The switch can store up to two software images. One image is the active image and the other is the backup image (not actively running on the switch). The administrator can select which image to load during the next boot cycle and add a description for each image on the switch.

Firmware update
Local web administrators can download firmware updates, which can include bug fixes and security patches, via the HPE Network Support Portal (NSP).

Instant On Provisioning
Automatically obtain configuration information and install a new image when the switch boots. When enabled, this feature allows the device to obtain an IP address from a network DHCP server and then attempts to locate the predefined configuration file from a TFTP server.

Configuration file management
The switch stores startup, running, and backup configuration files. Using the configuration file management feature, the local web administrator can copy the information contained in one configuration file to another configuration file on the switch.

Script File
Allows administrators to save and edit switch configuration files in a standard text format, streamlining the update process and simplifying deployment across multiple switches in the network.

Schedule configuration
Global schedule feature allows the administrator to configure up to four (4) absolute, or periodic schedules. Schedules can be applied to port admin mode, time-based ACLs, PoE power delivery, or LED Quiet Mode.

Secure File Transfer
Supports different mechanisms for secure file transfer, such as SFTP, SCP, and HTTPS protocols.

Core Management Infrastructure Protocols

DHCP client mode (Default setting)
Allows the switch to be directly connected to a network, enabling plug-and-play operation. In the absence of a DHCP server on the network, the switch reverts to the default static IP address.

SNMPv1, v2, and v3
Facilitates secure remote management of the switch, as the device can be discovered and monitored from an SNMP management station. In addition, the switch supports up to 6 (six) IPv4 or IPv6 trap receivers.

While managing the network from the Instant On Cloud Portal, SNMPv2 read-only access can be enabled on the 1840 Series, providing the capability of industry standard Management Information Base (MIB) and private extensions.

Network Time Protocol (NTP)
Helps ensure that the switch maintains a precise, linear timeline. Multiple-source time checks and statistical algorithms ensure an accurate switch clock time synchronization essential for modern enterprise applications.

Management VLAN ID
Configurable management VLAN provides secure management access to the switch for administrators within the specified VLAN.

Locator LED
Makes troubleshooting easier by allowing administrators to activate a switch's front panel "UID" LED, causing it to blink, so the user can quickly identify the correct device in a rack of similar switches.

Comprehensive LED display
The switch front panel provides an at-a-glance view of the port status, activity, speed, and full-duplex operation. In addition, the administrator can view the PoE port or Cloud connectivity status by toggling the external mode button.

Warranty and support

Instant On Limited Lifetime Support provides 24X7 phone support for the first 90 days and chat support for the entire warranty period. Next Business Day hardware replacement is also included for the first 30 days. Upgrade to unlimited phone and chat support with our optional Foundation Care.

The Instant On community is also a resource to use for public crowd-sourced support or configuration questions.

Refer to the EoS Policy for more details on EoS terms and conditions.

Refer to the Hewlett Packard Enterprise website at 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

	HPE Networking Instant On Switch 1840 8G, PD	HPE Networking Instant On Switch 8p Gigabit 4p CL4 PoE 65W 1840	HPE Networking Instant On Switch 8p Gigabit CL4 PoE 2p SFP 124W 1840	HPE Networking Instant On Switch 24p Gigabit 4p SFP 1840
	S5E25A	S5E26A	S5E27A	S5E28A
I/O ports and slots				
Ports	1 RJ-45 autosensing 10/100/1000BASE-T ports with IEEE 802.3af Class 3 PD (port 1) 7 RJ-45 autosensing 10/100/1000BASE-T ports (port 2-8) (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	4 RJ-45 autosensing 10/100/1000BASE-T ports with IEEE 802.3at Class 4 PoE (ports 1-4) 4 RJ-45 autosensing 10/100/1000BASE-T ports (ports 5-8) (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 10/100/1000BASE-T ports with IEEE 802.3at Class 4 PoE (ports 1-8) (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 10/100/1000BASE-T ports (ports 1-24) (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
Uplink	N/A	N/A	2x SFP 1GbE ports (ports 9-10)	4x SFP 1GbE ports (ports 25-28)
Console port	N/A	N/A	N/A	N/A
Physical characteristics				
Dimensions (Depth x Width x Height)	6.50 x 10.00 x 1.73 in (16.50 x 25.40 x 4.40 cm)	11.65 x 11.61 x 1.73 in (29.60 x 29.50 x 4.40 cm)	11.65 x 11.61 x 1.73 in (29.60 x 29.50 x 4.40 cm)	12.05 x 17.48 x 1.73 in (30.60 x 44.40 x 4.40 cm)
Weight	2.50 lb (1.13 kg)	4.60 lb (2.09kg)	4.81 lb (2.18 kg)	6.60 lb (2.99 kg)
Processor and memory				
Processor Type/ Frequency	ARM® Cortex-A9 @1.2GHz	ARM® Cortex-A9 @1.2GHz	ARM® Cortex-A9 @1.2GHz	ARM® Cortex-A9 @1.2GHz
SDRAM	1GB DDR4	1GB DDR4	1GB DDR4	1GB DDR4
Flash	256MB NAND	256MB NAND	256MB NAND	256MB NAND
Packet Buffer Size	512 KB	512 KB	512 KB	512 KB
Scale				
Jumbo frames support	Up to 9216 bytes	Up to 9216 bytes	Up to 9216 bytes	Up to 9216 bytes
Switching capacity	16 Gbps	16 Gbps	20Gbps	56 Gbps
MAC Address table size (# of entries)	16K entries	16K entries	16K entries	16K entries
Maximum VLAN supported	64	64	64	64
MAC Table Capacity	16K entries	16K entries	16K entries	16K entries
IGMP Groups	1K groups	1K groups	1K groups	1K groups

Technical specifications

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	S5E25A	S5E26A	S5E27A	S5E28A
Scale				
IPv4/MAC ACL Entries (ingress)	50	50	50	50
IPv4/MAC ACL Entries (egress)	unsupported	unsupported	unsupported	unsupported
Maximum ACEs	2048	2048	2048	2048
Link aggregation groups (LAG)	8	8	8	16
LAG members	4	4	4	4
Latency				
100 Mb Latency (LIFO)	< 10.3 µSec	< 10.3 µSec	< 10.3 µSec	< 10.3 µSec
1000 Mb Latency (LIFO)	< 6.2 µSec	< 6.2 µSec	< 6.2 µSec	< 6.2 µSec
Throughput				
Throughput (Mpps) @ 64 bytes packet	11.90 Mpps	11.90 Mpps	14.88 Mpps	41.66 Mpps
Reliability				
Reliability MTBF (years)	666	200	153	175
Environment				
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Operating relative humidity	15% to 95% @ 104°F (40°C) non-condensing	15% to 95% @ 104°F (40°C) non-condensing	15% to 95% @ 104°F (40°C) non-condensing	15% to 95% @ 104°F (40°C) non-condensing
Nonoperating/Storage relative humidity	15% to 95% @ 140°F (60°C) non-condensing	15% to 95% @ 140°F (60°C) non-condensing	15% to 95% @ 140°F (60°C) non-condensing	15% to 95% @ 140°F (60°C) non-condensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)

Technical specifications

	HPE Networking Instant On Switch 1840 8G, PD	HPE Networking Instant On Switch 8p Gigabit 4p CL4 PoE 65W 1840	HPE Networking Instant On Switch 8p Gigabit CL4 PoE 2p SFP 124W 1840	HPE Networking Instant On Switch 24p Gigabit 4p SFP 1840
	S5E25A	S5E26A	S5E27A	S5E28A
Acoustics				
Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	N/A	N/A	N/A	Sound Power, LWAd = 3.1 Bel
	N/A	N/A	N/A	Sound Pressure, LpAm (Bystander) = 18 dB
Fans (i.e. Fan-less, Fixed, Modular, and if possible, number of fans)	Fan-less	Fan-less	Fan-less	1 Fixed Fan Non Field-Replaceable-Unit
Primary Airflow	N/A	N/A	N/A	left-to-right
Electrical Characteristics				
Frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
AC voltage	100 - 240 VAC	100 - 127 VAC / 200 - 240 VAC	100 - 127 VAC / 200 - 240 VAC	100 - 127 VAC / 200 - 240 VAC
Current	0.6A (12VDC - 1.3A)	0.9 /1.5 A	1.5 / 0.8 A	0.4 / 0.3 A
Maximum heat dissipation BTU/hr and kj/hr (100% traffic rate)	>> Powered by External power adapter. 100-127V: 25.1 BTU/hr, 26.5 Kj/hr 200-220V: 24.9 BTU/hr, 26.3 Kj/hr	100-127V: 33.5 BTU/hr, 35.3 Kj/hr 200-220V: 32.9 BTU/hr, 34.7 Kj/hr	100-127V: 45.9 BTU/hr, 48.4 Kj/hr 200-220V: 43.4 BTU/hr, 45.8 Kj/hr	100-127V: 67.6 BTU/hr, 71.3 Kj/hr 200-220V: 67.9 BTU/hr, 71.6 Kj/hr
Maximum heat dissipation BTU/hr and kj/hr (100% traffic rate + 100% PoE)	N/A	100-127V: 293.2 BTU/hr, 309.3 Kj/hr 200-220V: 287.0 BTU/hr, 302.8 Kj/hr	100-127V: 499.3 BTU/hr, 526.8 Kj/hr 200-220V: 487.0 BTU/hr, 513.8 Kj/hr	N/A
Maximum heat dissipation BTU/hr and kj/hr (Idle)	>> Powered by External power adapter. 100-127V: 17.8 BTU/hr, 18.8 Kj/hr 200-220V: 17.6 BTU/hr, 18.6 Kj/hr	100-127V: 27.5 BTU/hr, 29.0 Kj/hr 200-220V: 27.0 BTU/hr, 28.5 Kj/hr	100-127V: 30.8 BTU/hr, 32.5 Kj/hr 200-220V: 29.4 BTU/hr, 31.0 Kj/hr	100-127V: 16.3 BTU/hr, 17.2 Kj/hr 200-220V: 17.2 BTU/hr, 18.1 Kj/hr
Power consumption (100% traffic rate)	>> Powered by External power adapter. 100-127V: 7.4W 200-220V: 7.3W >> Powered by PE device. DC 54V (PSE Voltage)/7.02W	100-127V: 9.8W 200-220V: 9.6W	100-127V: 13.5W 200-220V: 12.7W	100-127V: 19.8W 200-220V: 19.9W

Technical specifications

	HPE Networking Instant On Switch 1840 8G, PD	HPE Networking Instant On Switch 8p Gigabit 4p CL4 PoE 65W 1840	HPE Networking Instant On Switch 8p Gigabit CL4 PoE 2p SFP 124W 1840	HPE Networking Instant On Switch 24p Gigabit 4p SFP 1840
	S5E25A	S5E26A	S5E27A	S5E28A
Electrical Characteristics				
Power consumption (100% traffic rate + 100% PoE)	N/A	100-127V: 85.9W 200-220V: 84.1W	100-127V: 146.4W 200-220V: 142.7W	N/A
Power consumption (Idle)	>> Powered by External power adapter. 100-127V: 5.2W 200-220V: 5.2W	100-127V: 8.1W 200-220V: 7.9W	100-127V: 9.0W 200-220V: 8.6W	100-127V: 4.8W 200-220V: 5.0W
PoE power	Class 3 PD input	65W Class 4 PoE	124W Class 4 PoE	N/A
Power Supply Type	External Power Supply	Internal Power Supply	Internal Power Supply	Internal Power Supply
Safety				
Compliance	EN/IEC 62368-1, 2nd. & 3rd. Ed. UL 62368-1, 3rd.Ed. CAN/CSA C22.2 No. 62368-1, 3rd. Ed. EN/IEC 60825-1:2014 Class 1	EN/IEC 62368-1, 2nd. & 3rd. Ed. UL 62368-1, 3rd.Ed. CAN/CSA C22.2 No. 62368-1, 3rd. Ed. EN/IEC 60825-1:2014 Class 1	EN/IEC 62368-1, 2nd. & 3rd. Ed. UL 62368-1, 3rd.Ed. CAN/CSA C22.2 No. 62368-1, 3rd. Ed. EN/IEC 60825-1:2014 Class 1	EN/IEC 62368-1, 2nd. & 3rd. Ed. UL 62368-1, 3rd.Ed. CAN/CSA C22.2 No. 62368-1, 3rd. Ed. EN/IEC 60825-1:2014 Class 1
Emissions				
Compliance	EN 55032:2015/ CISPR 32, Class A FCC CFR 47 Part 15: 2018, Class A ICES-003, Class A VCCI-32, Class A CNS 13438, Class A KS C 9832, Class A AS/NZS CISPR 32, Class A	EN 55032:2015/ CISPR 32, Class A FCC CFR 47 Part 15: 2018, Class A ICES-003, Class A VCCI-32, Class A CNS 13438, Class A KS C 9832, Class A AS/NZS CISPR 32, Class A	EN 55032:2015/ CISPR 32, Class A FCC CFR 47 Part 15: 2018, Class A ICES-003, Class A VCCI-32, Class A CNS 13438, Class A KS C 9832, Class A AS/NZS CISPR 32, Class A	EN 55032:2015/ CISPR 32, Class A FCC CFR 47 Part 15: 2018, Class A ICES-003, Class A VCCI-32, Class A CNS 13438, Class A KS C 9832, Class A AS/NZS CISPR 32, Class A
Immunity				
Generic	BS/EN 55035, CISPR 35, KS C 9835	BS/EN 55035, CISPR 35, KS C 9835	BS/EN 55035, CISPR 35, KS C 9835	BS/EN 55035, CISPR 35, KS C 9835
EN	EN 55035, CISPR 35	EN 55035, CISPR 35	EN 55035, CISPR 35	EN 55035, CISPR 35
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3

	HPE Networking Instant On Switch 1840 8G, PD	HPE Networking Instant On Switch 8p Gigabit 4p CL4 PoE 65W 1840	HPE Networking Instant On Switch 8p Gigabit CL4 PoE 2p SFP 124W 1840	HPE Networking Instant On Switch 24p Gigabit 4p SFP 1840
	S5E25A	S5E26A	S5E27A	S5E28A
Immunity				
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Device Management				
Options	Instant On Cloud Portal; Mobile App; Web Browser; SNMP Manager; DOCs (Telnet, SSH)	Instant On Cloud Portal; Mobile App; Web Browser; SNMP Manager; DOCs (Telnet, SSH)	Instant On Cloud Portal; Mobile App; Web Browser; SNMP Manager; DOCs (Telnet, SSH)	Instant On Cloud Portal; Mobile App; Web Browser; SNMP Manager; DOCs (Telnet, SSH)
Mounting Kit				
Options	Supports table-top mounting Supports wall-mounting with ports facing either up or down Supports under-table mounting, with top-surface facing downward	Mounts in an EIA standard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rack-mounting, using the brackets provided Supports wall-mounting, using the brackets provided, with ports facing either up or down Supports under-table, using the brackets provided, with top-surface facing upward	Mounts in an EIA standard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rack-mounting, using the brackets provided Supports wall-mounting, using the brackets provided, with ports facing either up or down Supports under-table, using the brackets provided, with top-surface facing upward	Mounts in an EIA standard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rack-mounting, using the brackets provided Supports wall-mounting, using the brackets provided, with ports facing either up or down Supports under-table, using the brackets provided, with top-surface facing upward or downward

Technical specifications

	HPE Networking Instant On Switch 24p Gigabit 16p CL4 PoE 4p SFP 195W 1840	HPE Networking Instant On Switch 48p Gigabit 4p SFP 1840	HPE Networking Instant On Switch 48p Gigabit 24p CL4 PoE 4p SFP 370W 1840
	S5E29A	S5E30A	S5E31A
I/O ports and slots			
Ports	16 RJ-45 autosensing 10/100/1000BASE-T ports with IEEE 802.3at Class 4 PoE (ports 1-16) 8 RJ-45 autosensing 10/100/1000BASE-T ports (ports 17-24) (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"	48 RJ-45 autosensing 10/100/1000BASE-T ports (ports 1-48) (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 10/100/1000BASE-T ports with IEEE 802.3at Class 4 PoE (ports 1-24) 24 RJ-45 autosensing 10/100/1000BASE-T ports (ports 25-48) (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"
Uplink	4x SFP 1GbE ports (ports 25-28)	4x SFP 1GbE ports (ports 49-52)	4x SFP 1GbE ports (ports 49-52)
Console port	N/A	N/A	N/A
Physical characteristics			
Dimensions (Depth x Width x Height)	12.05 x 17.48 x 1.73 in (30.60 x 44.40 x 4.40 cm)	14.45 x 17.48 x 1.73 in (36.70 x 44.40 x 4.40 cm)	14.45 x 17.48 x 1.73 in (36.70 x 44.40 x 4.40 cm)
Weight	2.50 lb (1.13 kg)	4.60 lb (2.09kg)	4.81 lb (2.18 kg)
Processor and memory			
Processor Type/ Frequency	ARM Cortex-A9 @1.2GHz	ARM Cortex-A9 @1.25GHz	ARM Cortex-A9 @1.25GHz
SDRAM	1GB DDR4	1GB DDR4	1GB DDR4
Flash	256MB NAND	512 MB NAND	512 MB NAND
Packet Buffer Size	512 KB	4 MB	4 MB
Scale			
Jumbo frames support	Up to 9216 bytes	Up to 9216 bytes	Up to 9216 bytes
Switching capacity	56 Gbps	104 Gbps	104Gbps
MAC Address table size (# of entries)	16K entries	16K entries	16K entries
Maximum VLAN supported	64	64	64
MAC Table Capacity	16K entries	16K entries	16K entries
IGMP Groups	1K groups	1K groups	1K groups

Technical specifications

	HPE Networking Instant On Switch 24p Gigabit 16p CL4 PoE 4p SFP 195W 1840	HPE Networking Instant On Switch 48p Gigabit 4p SFP 1840	HPE Networking Instant On Switch 48p Gigabit 24p CL4 PoE 4p SFP 370W 1840
	S5E29A	S5E30A	S5E31A
Scale			
IPv4/MAC ACL Entries (ingress)	50	50	50
IPv4/MAC ACL Entries (egress)	unsupported	512	512
Maximum ACEs	2048	2048	2048
Link aggregation groups (LAG)	16	16	16
LAG members	4	8	8
Latency			
100 Mb Latency (LIFO)	< 8.8 µSec	< 8.0 µSec	< 8.0 µSec
1000 Mb Latency (LIFO)	< 4.7 µSec	< 3.3 µSec	< 3.3 µSec
Throughput			
Throughput (Mpps) @ 64 bytes packet	41.66 Mpps	77.37 Mpps	77.37 Mpps
Reliability			
Reliability MTBF (years)	114	196	122
Environment			
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Operating relative humidity	15% to 95% @ 104°F (40°C) non-condensing	15% to 95% @ 104°F (40°C) non-condensing	15% to 95% @ 104°F (40°C) non-condensing
Nonoperating/Storage relative humidity	15% to 95% @ 140°F (60°C) non-condensing	15% to 95% @ 140°F (60°C) non-condensing	15% to 95% @ 140°F (60°C) non-condensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)

Technical specifications

	HPE Networking Instant On Switch 24p Gigabit 16p CL4 PoE 4p SFP 195W 1840	HPE Networking Instant On Switch 48p Gigabit 4p SFP 1840	HPE Networking Instant On Switch 48p Gigabit 24p CL4 PoE 4p SFP 370W 1840
	S5E29A	S5E30A	S5E31A
Acoustics			
Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	Sound Power, LWAd = 3.3 Bel	Sound Power, LWAd = 3.9 Bel	Sound Power, LWAd = 3.4 Bel
	Sound Pressure, LpAm (Bystander) = 21 dB	Sound Pressure, LpAm (Bystander) = 25 dB	Sound Pressure, LpAm (Bystander) = 20 dB
Fans (i.e. Fan-less, Fixed, Modular, and if possible, number of fans)	2 Fixed Fans Non Field-Replaceable-Unit	1 Fixed Fan Non Field-Replaceable-Unit	3 Fixed Fans Non Field-Replaceable-Unit
Primary Airflow	left-to-right	left-to-right	left-to-right
Electrical Characteristics			
Frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
AC voltage	100 - 127 VAC / 200 - 240 VAC	100 - 127 VAC / 200 - 240 VAC	100 - 127 VAC / 200 - 240 VAC
Current	2.5 / 1.2 A	0.8 / 0.5	4.7 / 2.3 A
Maximum heat dissipation BTU/hr and kj/hr (100% traffic rate)	100-127V: 73.2 BTU/hr, 77.2 Kj/hr 200-220V: 68.2 BTU/hr, 72.0 Kj/hr"	100-127V: 132.3 BTU/hr, 139.6 Kj/hr 200-220V: 131.2 BTU/hr, 138.4 Kj/hr	100-127V: 189.7 BTU/hr, 200.1 Kj/hr 200-220V: 185.7 BTU/hr, 195.9 Kj/hr
Maximum heat dissipation BTU/hr and kj/hr (100% traffic rate + 100% PoE)	100-127V: 819.6 BTU/hr, 864.7 Kj/hr 200-220V: 799.3 BTU/hr, 843.3 Kj/hr	N/A	100-127V: 1590.3 BTU/hr, 1677.9 Kj/hr 200-220V: 1544.2 BTU/hr, 1629.2 Kj/hr
Maximum heat dissipation BTU/hr and kj/hr (Idle)	100-127V: 33.5 BTU/hr, 35.3 Kj/hr 200-220V: 31.8 BTU/hr, 33.6 Kj/hr	100-127V: 67.5 BTU/hr, 71.2 Kj/hr 200-220V: 67.4 BTU/hr, 71.1 Kj/hr	100-127V: 83.3 BTU/hr, 87.9 Kj/hr 200-220V: 82.5 BTU/hr, 87.0 Kj/hr
Power consumption (100% traffic rate)	100-127V: 21.5W 200-220V: 20.0W	100-127V: 38.8W 200-220V: 38.5W	100-127V: 55.6W 200-220V: 54.4W

Technical specifications

	HPE Networking Instant On Switch 24p Gigabit 16p CL4 PoE 4p SFP 195W 1840	HPE Networking Instant On Switch 48p Gigabit 4p SFP 1840	HPE Networking Instant On Switch 48p Gigabit 24p CL4 PoE 4p SFP 370W 1840
	S5E29A	S5E30A	S5E31A
Electrical Characteristics			
Power consumption (100% traffic rate + 100% PoE)	100-127V: 240.2W 200-220V: 234.3W	N/A	100-127V: 466.1W 200-220V: 452.6W
Power consumption (Idle)	100-127V: 9.8W 200-220V: 9.3W	100-127V: 19.8W 200-220V: 19.8W	100-127V: 24.4W 200-220V: 24.2W
PoE power	195W Class 4 PoE	N/A	370W Class 4 PoE
Safety			
Compliance	EN/IEC 62368-1, 2nd. & 3rd. Ed. UL 62368-1, 3rd.Ed. CAN/CSA C22.2 No. 62368-1, 3rd. Ed. EN/IEC 60825-1:2014 Class 1	EN/IEC 62368-1, 2nd. & 3rd. Ed. UL 62368-1, 3rd.Ed. CAN/CSA C22.2 No. 62368-1, 3rd. Ed. EN/IEC 60825-1:2014 Class 1	EN/IEC 62368-1, 2nd. & 3rd. Ed. UL 62368-1, 3rd.Ed. CAN/CSA C22.2 No. 62368-1, 3rd. Ed. EN/IEC 60825-1:2014 Class 1
Emissions			
Compliance	EN 55032:2015/ CISPR 32, Class A FCC CFR 47 Part 15: 2018, Class A ICES-003, Class A VCCI-32, Class A CNS 13438, Class A KS C 9832, Class A AS/NZS CISPR 32, Class A	EN 55032:2015/ CISPR 32, Class A FCC CFR 47 Part 15: 2018, Class A ICES-003, Class A VCCI-32, Class A CNS 13438, Class A KS C 9832, Class A AS/NZS CISPR 32, Class A	EN 55032:2015/ CISPR 32, Class A FCC CFR 47 Part 15: 2018, Class A ICES-003, Class A VCCI-32, Class A CNS 13438, Class A KS C 9832, Class A AS/NZS CISPR 32, Class A
Immunity			
Generic	BS/EN 55035, CISPR 35, KS C 9835	BS/EN 55035, CISPR 35, KS C 9835	BS/EN 55035, CISPR 35, KS C 9835
EN	EN 55035, CISPR 35	EN 55035, CISPR 35	EN 55035, CISPR 35
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3

	HPE Networking Instant On Switch 24p Gigabit 16p CL4 PoE 4p SFP 195W 1840	HPE Networking Instant On Switch 48p Gigabit 4p SFP 1840	HPE Networking Instant On Switch 48p Gigabit 24p CL4 PoE 4p SFP 370W 1840
	S5E29A	S5E30A	S5E31A
Immunity			
Generic	BS/EN 55035, CISPR 35, KS C 9835	BS/EN 55035, CISPR 35, KS C 9835	BS/EN 55035, CISPR 35, KS C 9835
EN	EN 55035, CISPR 35	EN 55035, CISPR 35	EN 55035, CISPR 35
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Device Management			
Options	Instant On Cloud Portal; Mobile App; Web Browser; SNMP Manager; DOCs (Telnet, SSH)	Instant On Cloud Portal; Mobile App; Web Browser; SNMP Manager; DOCs (Telnet, SSH)	Instant On Cloud Portal; Mobile App; Web Browser; SNMP Manager; DOCs (Telnet, SSH)
Mounting Kit			
Options	Supports table-top mounting Supports wall-mounting with ports facing either up or down Supports under-table mounting, with top-surface facing downward	Mounts in an EIA standard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rack-mounting, using the brackets provided Supports wall-mounting, using the brackets provided, with ports facing either up or down Supports under-table, using the brackets provided, with top-surface facing upward	Mounts in an EIA standard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rack-mounting, using the brackets provided Supports wall-mounting, using the brackets provided, with ports facing either up or down Supports under-table, using the brackets provided, with top-surface facing upward

Standards Compliance

Standard	Protocol / Technology Title	Functional Category
IEEE 802.3	10BASE-T	Physical / Data Link Layer
IEEE 802.3u	100BASE-TX	
IEEE 802.3ab	1000BASE-T	
IEEE 802.3z	1000BASE-X	
IEEE 802.2af	PoE (PoE models only)	Power Delivery
IEEE 802.3at	PoE (PoE models only)	
IEEE 802.3x	Flow control	Traffic Management
IEEE 802.1Q	VLANS	Segmentation
IEEE 802.1p	Priority	Quality of Service
IEEE 802.3ad	Link Aggregation Control Protocol (LACP)	Link Aggregation / Trunking
IEEE 802.1X	Port access authentication	Network Security
IEEE 802.3az	Energy Efficient Ethernet	Sustainability
IEEE 802.1D	Spanning Tree Protocol (STP)	Layer 2 Loop Prevention
IEEE 802.1w	Rapid Spanning Tree Protocol (RSTP)	
IEEE 802.1S	Multiple Spanning Tree Protocol (MSTP)	
IEEE 802.1AB	Link Layer Discovery Protocol	Network Discovery and Topology Management

Standards Compliance

Standard / RFC	Protocol / Technology Title	Functional Category
RFC 1027	Using ARP to Implement Transparent Subnet Gateways	IP-to-MAC / Proxy ARP
RFC 1042	A Standard for the Transmission of IP Datagrams over IEEE 802 Networks	Packet Encapsulation
RFC 1071	Computing the Internet Checksum	Error Detection / Integrity
RFC 1123	Requirements for Internet Hosts - Application and Support	Core Internet Architecture
RFC 1141	Incremental Updating of the Internet Checksum	Error Detection / Integrity
RFC 1155	Structure and Identification of Management Information for TCP/IP-based Internets	Network Management
RFC 1157	A Simple Network Management Protocol (SNMP)	Network Management
RFC 1213	Management Information Base for Network Management of TCP/IP-based internets: MIB-II	Network Management
RFC 1215	A Convention for Defining Traps for use with the SNMP	Network Management
RFC 1286	Definitions of Managed Objects for Bridges	Network Management
RFC 1350	The TFTP Protocol (Revision 2)	File Transfer
RFC 1442	Structure of Management Information for version 2 of the Simple Network Management Protocol (SNMPv2)	Network Management
RFC 1451	Manager-to-Manager Management Information Base	Network Management
RFC 1493	Definitions of Managed Objects for Bridges	Network Management
RFC 1533	DHCP Options and BOOTP Vendor Extensions	IP Allocation / Provisioning
RFC 1542	Clarifications and Extensions for the Bootstrap Protocol	IP Allocation / Provisioning
RFC 1573	Evolution of the Interfaces Group of MIB-II	Network Management
RFC 1624	Computation of the Internet Checksum via Incremental Update	Error Detection
RFC 1643	Definitions of Managed Objects for the Ethernet-like Interface Types	Network Management
RFC 1700	Assigned Numbers	Core Internet Architecture
RFC 1757	Remote Network Monitoring Management Information Base	Network Management
RFC 1867	Form-based File Upload in HTML	Web Application Layer
RFC 1907	Management Information Base for Version 2 of the Simple Network Management Protocol (SNMPv2)	Network Management
RFC 2011	SNMPv2 Management Information Base for the Internet Protocol using SMIv2	Network Management
RFC 2012	SNMPv2 Management Information Base for the Transmission Control Protocol using SMIv2	Network Management
RFC 2013	SNMPv2 Management Information Base for the User Datagram Protocol using SMIv2	Network Management
RFC 2021	Remote Network Monitoring Management Information Base Version 2 using SMIv2 (RMON2)	Network Management
RFC 2030	Simple Network Time Protocol (SNTP) Version 4 for IPv4, IPv6 and OSI	Network Time / Sync
RFC 2131	Dynamic Host Configuration Protocol (DHCP client)	IP Allocation / Provisioning
RFC 2132	DHCP Options and BOOTP Vendor Extensions (Update)	IP Allocation / Provisioning
RFC 2233	The Interfaces Group MIB using SMIv2	Network Management
RFC 2236	Internet Group Management Protocol, Version 2	Multicast Management

Standards Compliance

Standard / RFC	Protocol / Technology Title	Functional Category
RFC 2460	IPv6 specification	Network Routing
RFC 2464	Transmission of IPv6 Packets over Ethernet Networks	Packet Encapsulation
RFC 2474	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	QoS Marking
RFC 2576	Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework	Network Management
RFC 2579	Textual Conventions for SMIv2	Network Management
RFC 2580	Conformance Statements for SMIv2	Network Management
RFC 2616	Hypertext Transfer Protocol -- HTTP/1.1	Web Application Layer
RFC 2618	RADIUS Authentication Client MIB	Network Security / Management
RFC 2618	RADIUS Authentication Client MIB	Network Security / Management
RFC 2620	RADIUS Accounting Client MIB	Network Security / Management
RFC 2665	Definitions of Managed Objects for the Ethernet-like Interface Types	Network Management
RFC 2666	Definitions of Object Identifiers for Identifying Ethernet Chipsets	Network Management
RFC 2674	Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual Extensions	Network Management
RFC 2737	Entity MIB (Version 2)	Network Management
RFC 2819	Remote Network Monitoring Management Information Base	Network Management
RFC 2827	Network Ingress Filtering: Defeating Denial of Service Attacks which employ IP Source Address Spoofing	DoS Mitigation / Ingress Filtering
RFC 2863	The Interfaces Group MIB	Network Management
RFC 2925	Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations	Network Management
RFC 2992	Analysis of an Equal-Cost Multi-Path Algorithm	ECMP Load Balancing Algorithm
RFC 3019	IP Version 6 Management Information Base for the Multicast Listener Discovery Protocol	Network Management
RFC 3164	The BSD Syslog Protocol	System Logging
RFC 3261	SIP: Session Initiation Protocol	VoIP Signaling
RFC 3376	Internet Group Management Protocol, Version 3	Multicast Management
RFC 3411	An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks	Network Management
RFC 3412	Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)	Network Management
RFC 3413	Simple Network Management Protocol (SNMP) Applications	Network Management
RFC 3414	User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)	Network Management
RFC 3415	View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)	Network Management
RFC 3416	Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP)	Network Management
RFC 4007	IPv6 scoped address architecture RFC 3484: default address selection mechanism	Network Addressing
RFC 4250	The Secure Shell (SSH) Protocol Assigned Numbers	Protocol Parameter Registry

Standards Compliance

Standard / RFC	Protocol / Technology Title	Functional Category
RFC 4251	The Secure Shell (SSH) Protocol Architecture	General Architecture
RFC 4252	The Secure Shell (SSH) Authentication Protocol	Client Authentication Layer
RFC 4253	The Secure Shell (SSH) Transport Layer Protocol	Connection Transport & Encryption
RFC 4254	The Secure Shell (SSH) Connection Protocol	Channel Multiplexing / Sessions
RFC 4256	Generic Message Exchange Authentication (Keyboard-Interactive)	Authentication Extension
RFC 4291	(which obsoletes RFC 3513): IPv6 address architecture RFC 4291: IPv6 addressing architecture	Network Addressing
RFC 4293	MIB IPv6: textual conventions and general group RFC 3595: textual conventions for IPv6 flow label	Network Management
RFC 4335	The Secure Shell (SSH) Session Channel Break Extension	Connection Control Extension
RFC 4344	SSH Transport Layer Cryptographic Algorithms	Cipher Suite Updates (AES-GCM/ CTR)
RFC 4345	Improved Arcfour Modes for the Secure Shell (SSH) Transport Layer Protocol	Legacy Cipher Optimization
RFC 4419	Diffie-Hellman Group Exchange for the SSH Transport Layer Protocol	Key Exchange (KEX) Mechanism
RFC 4432	RSA Key Exchange for the Secure Shell (SSH) Transport Layer Protocol	Key Exchange (KEX) Mechanism
RFC 4443	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification (obsoletes RFC 2463)	Network Diagnostics
RFC 4716	The Secure Shell (SSH) Public Key File Format	Public Key Management
RFC 4861	(which obsoletes RFC 2461): neighbor discovery for IPv6	Neighbor Discovery / Control
RFC 4862	IPv6 Stateless Address Autoconfiguration (obsoletes RFC 2462)	IP Allocation / SLAAC
RFC 5214	(which obsoletes RFC 4214): ISATAP tunneling	IPv4-to-IPv6 Transition / Tunneling
RFC 5424	The Syslog Protocol	System Logging / Telemetry
RFC 5519	Multicast Group Membership Discovery MIB	Network Management
RFC 5647	AES-GCM Subsystem for SSH	Authenticated Encryption (AEAD)
RFC 5656	Elliptic Curve Algorithm Integration for the SSH Transport Layer	Modern Crypto (ECDSA / ECDH)
RFC 5722	Handling of Overlapping IPv6 Fragments	Network Security / Management
RFC 768	User Datagram Protocol (UDP)	Transport Layer
RFC 783	TFTP Protocol (revision 2)	File Transfer
RFC 791	Internet Protocol (IP)	Network Routing
RFC 792	Internet Control Message Protocol (ICMP)	Network Diagnostics
RFC 793	Transmission Control Protocol (TCP)	Transport Layer
RFC 813	Window and Acknowledgement Strategy in TCP	Transport Layer Optimization
RFC 826	An Ethernet Address Resolution Protocol (ARP)	IP-to-MAC Resolution
RFC 854	Telnet Protocol Specification	Remote Management
RFC 855	Telnet Option Specifications	Remote Management

Standards Compliance

Standard / RFC	Protocol / Technology Title	Functional Category
RFC 856	Telnet Binary Transmission	Remote Management
RFC 858	Telnet Suppress Go Ahead Option	Remote Management
RFC 879	The TCP Maximum Segment Size and Related Topics	Transport Layer Optimization
RFC 894	A Standard for the Transmission of IP Datagrams over Ethernet Networks	Packet Encapsulation
RFC 896	Congestion Control in IP/TCP Internetworks	Transport Layer Optimization
RFC 896	Congestion Control in IP/TCP Internetworks (Duplicate entry in list)	Transport Layer Optimization
RFC 919	Broadcasting Internet Datagrams	Network Addressing
RFC 920	Domain Requirements	Core Internet Architecture
RFC 922	Broadcasting Internet Datagrams in the Presence of Subnets	Network Addressing
RFC 950	Internet Standard Subnetting Procedure	Network Addressing
RFC 951	Bootstrap Protocol (BOOTP)	IP Allocation / Provisioning

Ordering information

HPE Networking Instant On Switch Series 1840

Part number	Description
S5E25A	HPE Networking Instant On Switch 8p Gigabit 1p CL3 PD 1840
S5E26A	HPE Networking Instant On Switch 8p Gigabit 4p CL4 PoE 65W 1840
S5E27A	HPE Networking Instant On Switch 8p Gigabit CL4 PoE 2p SFP 124W 1840
S5E28A	HPE Networking Instant On Switch 24p Gigabit 4p SFP 1840
S5E29A	HPE Networking Instant On Switch 24p Gigabit 16p CL4 PoE 4p SFP 195W 1840
S5E30A	HPE Networking Instant On Switch 48p Gigabit 4p SFP 1840
S5E31A	HPE Networking Instant On Switch 48p Gigabit 24p CL4 PoE 4p SFP 370W 1840

Support Transceivers & Cables

Part number	Description
R9D16A	HPE Networking Instant On 1G SFP LC SX 500m OM2 MMF Transceiver
S0G20A	HPE Networking Instant On 1G LX SFP LC 10km SMF Transceiver
R9D17A	HPE Networking Instant On 1G SFP RJ45 100m Cat5e Transceiver
R9D17B	HPE Networking Instant On 1G SFP RJ45 100m Cat5e Transceiver

Foundation Care

Foundation Care Support SKU	SKU Description
H13DBE	HPE Aruba Networking Foundational Care 3Y NBD Exch 1840 8P Service
H13DCE	HPE Aruba Networking Foundational Care 3Y NBD Exch 1840 8P POE Service
H13DDE	HPE Aruba Networking Foundational Care 3Y NBD Exch 1840 8P POE SFP Service
H13DFE	HPE Aruba Networking Foundational Care 3Y NBD Exch 1840 24P Service
H13DGE	HPE Aruba Networking Foundational Care 3Y NBD Exch 1840 24P POE Service
H13DHE	HPE Aruba Networking Foundational Care 3Y NBD Exch 1840 48P Service
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