Hewlett Packard Enterprise

HPE OfficeConnect 1810 Switch Series

Key features

- Customized operation using intuitive Web interface
- Flexible connection and deployment options
- Layer 2 operation at wire speeds
- Fanless design for quiet operation
- Limited lifetime warranty

Product overview

The HPE OfficeConnect 1810 Switch Series is part of the OfficeConnect portfolio of Hewlett Packard Enterprise small business networking products. The series includes 8- and 24-port Fast Ethernet models. The 24-port model offers 2 SFP ports for fiber connectivity. The switches support flexible installation options, including mounting on walls, under tables, or on desktops.

Customizable features include VLANs, Spanning Tree, link aggregation trunking, Rapid Spanning Tree Protocol (RSTP) and DSCP QoS policies. The 8- and 24-port models also include the latest energy-saving capabilities, including Energy Efficient Ethernet (EEE) and idle-port power down.

HPE OfficeConnect 1810 Switch Series includes a Limited Lifetime Warranty. This warranty provides advance hardware replacement with next business day shipment in most countries, limited 24x7 telephone support available from HPE for the first 90 days, and limited electronic and business hours telephone support is available from HPE for the entire warranty period.

Features and benefits

Connectivity

• Auto-MDI/MDIX

  Automatically adjusts for straight-through or crossover cables on all ports

• Packet storm protection

  Protects against broadcast, multicast, or unicast storms with user-defined thresholds

• IEEE 802.3af PoE-powered device option

  Obtains power provided by a standard PoE device connected to Port 1; deploys the switch wherever an Ethernet cable can reach as a power outlet is not needed (8-port GbE model only)

• SFP ports for fiber connectivity

  The 24-port model provides fiber connections for uplinks and other connections across longer distances than copper cabling can support; "true" SFP ports operate in addition to available copper Ethernet ports, providing a higher total number of available ports vs. "combo" ports, which are either a copper or fiber connection

Performance

• Half- or full-duplex auto-negotiating capability on every port doubles the throughput of every port

• Link aggregation (trunking)

  Brings together groups of ports automatically using Link Aggregation Control Protocol (LACP) or, manually, to form an ultra-high-bandwidth connection to the network backbone; helps prevent traffic bottlenecks; (both 8-port and 24-port models support a maximum of 4 ports per trunk; the 8-port model supports 4 trunks; the 24-port model supports 8 trunks

Quality of service (QoS)

• Traffic prioritization (IEEE 802.1p)

  Provides time-sensitive packets (like VoIP and video) with priority over other traffic based on DSCP or IEEE 802.1p classification; packets are mapped to four hardware queues for more effective throughput

• IEEE 802.1p prioritization with DSCP

  Delivers data from the switch to devices based on the priority and type of traffic using Differentiated Services Code Point (DSCP)

• Broadcast control

  Allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

Layer 2 switching

• VLAN support and tagging

  Supports up to 64 port-based VLANs and dynamic configuration of IEEE 802.1Q VLAN tagging, providing security between workgroups

• Jumbo packet support

  Improves the performance of large data transfers; supports frame size of up to 9,220 bytes

Resiliency and high availability

• IEEE 802.1D Spanning Tree Protocol (STP) and IEEE 802.1W Rapid Spanning Tree Protocol (RSTP)

  Provide redundant links while preventing network loops

Security

• Secure Sockets Layer (SSL)

  Encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch

• Automatic denial-of-service protection

  Monitors six types of malicious attacks and protects the network by blocking the attacks

- Management password

  Provides security so that only authorized access to the Web browser interface is allowed

Ease of use
- Locator LED (switch)

  Allows users to set the locator LED on a specific switch to either turn on, blink, or turn off; simplifies troubleshooting by making it easy to locate a particular switch within a rack of similar switches

- Comprehensive LED display with per-port indicators

  Provides an at-a-glance view of status, activity, speed, and full-duplex operation

Flexibility
- Flexible installation

  Allows mounting on wall, desktop, or under-table

- Rack mountable (24-port model)

  Offers a rack-mounting option with included hardware

- Kensington lock slot

  Allows switches to be physically secured in open-space deployments

Management
- Simple Web management

  Allows easy management of devices by nontechnical users with its intuitive Web GUI

- Secure Web GUI

  Provides a secure, easy-to-use graphical interface for configuring the module via HTTPS

- SNMPv1, v2c

  Enable devices to be discovered and monitored from an SNMP management station

- Dual flash images

  Provide independent primary and secondary operating system files for backup while upgrading

- Port mirroring

  Enables traffic on a port to be simultaneously sent to a network analyzer for monitoring

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

  Advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications

Additional information
- Energy savings

  Utilizes Energy Efficient Ethernet (EEE) IEEE 802.3az standard for lower power consumption

- Green IT and power

  Places inactive ports automatically in low-power mode and its LED in power-down mode, to conserve energy

- Green initiative support

  Provides support for RoHS and WEEE regulations

Warranty and support
- Limited Lifetime Warranty

  This series comes with a Limited Lifetime Warranty providing advance hardware replacement with next business day shipment in most countries, 24x7 phone support available for the first 90 days, and electronic and business hours phone support for the entire warranty period. See **hpe.com/networking/warrantysummary** for full warranty and support information included with your product purchase.

HPE 1810 Switch Series

SPECIFICATIONS	HPE 1810 8 v2 Switch (J9800A)
I/O ports and slots	7 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full
	1 RJ-45 autosensing 10/100/1000 port (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
	Supports a maximum of 7 autosensing 10/100 ports plus 1 autosensing 10/100/1000 port
Physical characteristics Dimensions	7.93(w) x 4.65(d) x 1.73(h) in (20.14 x 11.81 x 4.39 cm) (1U height)
Weight	0.77 lb (.35 kg)
Memory and processor	128 MB RAM, 8 MB flash; packet buffer size: 512 KB
Mounting and enclosure	wall, desktop, and under-table mounting
Performance 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size	< 3.3 µs (64-byte packets) up to 2.5 Mpps 3.4 Gbps 8000 entries
Environment Operating temperature Operating relative humidity Non-operating/Storage temperature Non-operating/Storage relative humidity Altitude Acoustic	32°F to 104°F (0°C to 40°C) 15% to 95% @ 104°F (40°C) -40°F to 158°F (-40°C to 70°C) 15% to 95% @ 140°F (60°C) up to 10,000 ft (3 km) Power: 0 dB no fan
Electrical characteristics Frequency Maximum heat dissipation AC voltage Current Maximum power rating	50/60 Hz 100 - 240 VAC .5 A 4.8 W
	Notes: Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.

SPECIFICATIONS	HPE 1810 8 v2 Switch (J9800A)
Safety	UL 60950-1; IEC 60950; EN 60950
Emissions	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4
Immunity ESD Radiated EFT/Burst Surge Conducted Power frequency magnetic field Voltage dips and interruptions Harmonics Flicker	 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2 EN 61000-3-3
Management	Web browser
Notes	Use only supported genuine HPE mini-GBICs with your switch.
Services	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.

HPE 1810 Switch Series

SPECIFICATIONS	HPE 1810 24 v2 Switch (J9801A)
I/O ports and slots	22 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full
	2 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 100/1000 Mbps slots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X
	Supports a maximum of 22 autosensing 10/100 ports, 2 autosensing 10/100/1000 ports plus 2 SFP 100/1000 slots
Physical characteristics Dimensions	12.99(w) x 6.81(d) x 1.73(h) in (32.99 x 17.3 x 4.39 cm) (1U height)
Weight	2.2 lb (1 kg)
Memory and processor	128 MB RAM, 8 MB flash; packet buffer size: 512 KB
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack (hardware included); horizontal surface, wall, and under-table mounting
Performance 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size	< 3.4 µs (64-byte packets) up to 9.2 Mpps 12.4 Gbps 8000 entries
Environment Operating temperature Operating relative humidity Non-operating/Storage temperature Non-operating/Storage relative humidity Altitude Acoustic	32°F to 104°F (0°C to 40°C) 15% to 95% @ 104°F (40°C) -40°F to 158°F (-40°C to 70°C) 15% to 95% @ 140°F (60°C) up to 10,000 ft (3 km) Power: 0 dB no fan
Electrical characteristics Frequency AC voltage Current Maximum power rating	50/60 Hz 100 - 127 / 200 - 240 VAC .4/.3 A 22 W
	Notes: Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950-1; IEC 60950; EN 60950

SPECIFICATIONS	HPE 1810 24 v2 Switch (J9801A)
Emissions	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4

Immunity	
ESD	IEC 61000-4-2
Radiated	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4
Surge	IEC 61000-4-5
Conducted	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11
Harmonics	EN 61000-3-2
Flicker	EN 61000-3-3

Management	Web browser
Notes	Use only supported genuine HPE mini-GBICs with your switch.
Services	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.

STANDARDS AND PROTOCOLS
(applies to all products in series)

Denial of service protection		CPU DoS Protection	
General protocols	IEEE 802.1p Priority IEEE 802.1Q VLANs	IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3x Flow Control	RFC 1534 DHCP/BOOTP Interoperation RFC 2030 Simple Network Time Protocol (SNTP) v4
Network management		IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	

HPE 1810 Switch Series accessories

Cables	HPE 0.5 m Multi-mode OM3 LC/LC Optical Cable (AJ833A) HPE 1 m Multi-mode OM3 LC/LC Optical Cable (AJ834A) HPE 2 m Multi-mode OM3 LC/LC Optical Cable (AJ835A) HPE 5 m Multi-mode OM3 LC/LC Optical Cable (AJ836A) HPE 15 m Multi-mode OM3 LC/LC Optical Cable (AJ837A) HPE 30 m Multi-mode OM3 LC/LC Optical Cable (AJ838A) HPE 50 m Multi-mode OM3 LC/LC Optical Cable (AJ839A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)
Mounting kit	HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)
HPE OfficeConnect 1810 24 v2 Switch (J9801A)	HPE X121 1G SFP LC SX Transceiver (J4858C) HPE X121 1G SFP LC LX Transceiver (J4859C) HPE X121 1G SFP RJ45 T Transceiver (J8177C) HPE X111 100M SFP LC FX Transceiver (J9054C)

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