QuickSpecs

Overview

HPE OfficeConnect 1850 Switch Series



Models

1.00.0.0	
HPE OfficeConnect 1850 6XGT and 2XGT/SPF+ Switch	JL169A
HPE OfficeConnect 1850 24G 2XGT Switch	JL170A
HPE OfficeConnect 1850 48G 4XGT Switch	JL171A
HPE OfficeConnect 1850 24G 2XGT PoE+ 185W Switch	JL172A
HPE OfficeConnect 1850 48G 4XGT PoE+ 370W Switch	JL173A

Key features

- 10-Gigabit 10GBASE-T on all models for high-speed interconnect
- Non-PoE and PoE+ 24- and 48 port models
- 8 port 10GBASE-T switch with 2 SFP+ dual-personality ports
- Intuitive Web management interface for easy switch configuration
- Limited Lifetime Warranty

Product overview

HPE OfficeConnect 1850 Switch Series devices are basic smart-managed, fixed-configuration Gigabit plus 10 Gigabit Ethernet Layer 2 switches designed for small businesses looking for high performance in an easy-to-administer solution. The series is part of the OfficeConnect portfolio of Hewlett Packard Enterprise small business networking products.

The series consists of five switch models. Four are Gigabit switches each with 10-Gigabit 10GBASE-T uplink ports. One is an 8-port 10-Gigabit aggregator switch. Together, you can build a high bandwidth network with Gigabit edge port switches interconnected at 10-Gigabit speeds. Non-PoE and PoE+ models are available. The 24 port models include 2 10GBASE-T ports; the 48 port



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models include 4 10GBASE-T ports and an 8 port model includes 8 10GBASE-T ports with 2 dual-personality SFP+ ports. All HPE OfficeConnect 1850 Switches support flexible installation options including mounting on wall, under table, or on a desktop.

These Gigabit switches are plug-and-play out of the box, yet network operation can be fine-tuned through features available from a simple web browser-based GUI, if necessary. Customizable features include VLANs, Rapid Spanning Tree, IGMP Snooping, link aggregation trunking and DSCP QoS policies. All models include the latest energy-saving capabilities, including Energy Efficient Ethernet (EEE) and idle-port power down. All models include variable speed fans operating only at the speed necessary to maintain operating temperature to reduce excess noise and power consumption by the switch. HPE OfficeConnect 1850 Switch Series includes a Limited Lifetime Warranty.

Features and benefits

Management

• Simple Web management

allows for easy management of the switch—even by nontechnical users—through an intuitive Web GUI; supports HTTP and HTTP Secure (HTTPS)

SNMPv1, v2c

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

Port mirroring

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

Dual flash images

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

Network Time Protocol (NTP)

synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network

Manual network time configuration

manually set the date and time on the switch in the absence of an NTP server

• Default DHCP client mode

allows the switch to be directly connected to a network, enabling plug-and-play operation; in absence of a DHCP server on the network, the switch falls back to a default, fixed IP address

Quality of Service (QoS)

• Traffic prioritization

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 eight hardware queues for more effective throughput

• Broadcast control

allows limiting of broadcast traffic rate to reduce unwanted network broadcast traffic

IEEE 802.1p/Q

delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q Virtual LANs (VLANs)

Connectivity

Auto-MDI/MDIX

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

• IEEE 802.3X flow control

provides a flow throttling mechanism propagated through the network to prevent packet loss at a congested node

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.

• IEEE 802.3at Power over Ethernet (PoE+)

provides up to 30W per port, which allows support of the latest PoE+-capable devices such as IP phones, wireless access

Overview

points, and security cameras, as well as any IEEE 802.3af-compliant end device; lowers the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments

PoE+ port availability

ports 1 – 12 provide PoE+ on the HPE 1850 24G 2XGT PoE+ 185W Switch. Ports 1-24 provide PoE+ on the HPE 1850 48G 4XGT PoE+ 370W Switch.

• Auto PoE power configuration

the switch automatically assigns the required power to a port for a PD device based on LLDP (Link Layer Discovery Protocol). Optionally, the switch permits manual, per port, PoE power configuration.

PoE shut down mode

a PoE scheduler provides the ability to define the hours of PoE power being supplied on a group of switch ports based on a 24 hour day. The scheduler enables the flexibility to select individual days of a week as well as reccurrence on a weekly basis with a start and end date

Energy Efficient Ethernet

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 efficient cooling

all models include variable speed fans operating only at the speed necessary to maintain operating temperature to reduce excess noise and power consumption by the switch

• Energy savings status

the switch provides an estimated cumulative energy savings due to green Ethernet features enabled

Security

Secure Socket Layer (SSL)

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

Automatic denial-of-service protection

monitors nine types of malicious attacks and protects the network by blocking these attacks

Management password

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

Performance

• Half- and full-duplex auto-negotiating capability on every port

doubles the throughput of every port

IGMP snooping

improves network performance through multicast filtering, instead of flooding traffic to all ports.

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 9220 bytes

Resiliency and high availability

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

provides redundant links while preventing network loops

• Link aggregation

brings together groups of ports automatically using Link Aggregation Control Protocol (LACP) or, manually, to form an

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ultra-high-bandwidth connection to the network backbone; helps prevent traffic bottlenecks; the 8 port model supports 4 trunks, the 24-port models support 8 trunks and the 48-port models support 16 trunks. The 8- and 24-port switches can support up to 4 ports per trunk, the 48-port switches can support up to 8 ports per trunk

Ease of use

Locator LED

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 with supplied hardware

• Rack mountable

all models include rack-mounting hardware for mounting in a standard 19 inch telco rack.

Warranty and support

• Limited Lifetime Warranty

See http://www.hpe.com/officeconnect/support for warranty and support information included with your product purchase.

• C13 PDU Jumper Cord (ROW)

Build To Order: BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

 HPE OfficeConnect 1850 6XGT and 2XGT/SPF+ Switch 6 RJ-45 1/10GBASE-T ports 2 Dual Personality SFP+ 1/10GBASE-T ports (min=0 \ max=2 SFP/SFP+ Transceivers) 1U - Height 	JL169A See Configuration NOTE:1, 2
PDU Cable NA/MEX/TW/JP • C13 PDU Jumper Cord (NA/MEX/TW/JP)	JL169A#B2B
PDU Cable ROW • C13 PDU Jumper Cord (ROW)	JL169A#B2C
High Volt Switch to Wall Power Cord • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)	JL169A#B2E
No Power Cord • No Localization Power Cord Selected	JL169A#AC3
HPE OfficeConnect 1850 24G 2XGT Switch • 24 RJ-45 autosensing 10/100/1000 ports • 2 RJ-45 1/10GBASE-T ports • 1U - Height	JL170A See Configuration NOTE: 2
PDU Cable NA/MEX/TW/JP • C13 PDU Jumper Cord (NA/MEX/TW/JP)	JL170A#B2B
PDU Cable ROW • C13 PDU Jumper Cord (ROW)	JL170A#B2C
High Volt Switch to Wall Power Cord • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)	JL170A#B2E
No Power Cord • No Localization Power Cord Selected	JL170A#AC3
HPE OfficeConnect 1850 48G 4XGT Switch • 48 RJ-45 autosensing 10/100/1000 ports • 4 RJ-45 1/10GBASE-T ports • 1U - Height	JL171A See Configuration NOTE: 2
PDU Cable NA/MEX/TW/JP • C13 PDU Jumper Cord (NA/MEX/TW/JP)	JL171A#B2B
PDU Cable ROW	JL171A#B2C

High Volt Switch to Wall Power Cord JL171A#B2E • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) No Power Cord JI 171A#AC3 • No Localization Power Cord Selected HPE OfficeConnect 1850 24G 2XGT PoE+ 185W Switch JL172A See Configuration • 12 RJ-45 autosensing 10/100/1000 PoE+ ports NOTE: 2 • 12 RJ-45 autosensing 10/100/1000 ports • 2 RJ-45 1/10GBASE-T ports • 1U - Height JL172A#B2B PDU Cable NA/MEX/TW/JP C13 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JL172A#B2C • C13 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord JL172A#B2E • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) No Power Cord JL172A#AC3 No Localization Power Cord Selected HPE OfficeConnect 1850 48G 4XGT PoE+ 370W Switch JL173A See Configuration 24 RJ-45 autosensing 10/100/1000 PoE+ ports NOTE: 2 • 24 RJ-45 autosensing 10/100/1000 ports • 4 RJ-45 1/10GBASE-T ports • 1U - Height PDU Cable NA/MEX/TW/JP JL173A#B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JL173A#B2C C15 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord JL173A#B2E

HPE 2.5m C15 to NEMA 6-20P 250V Non-locking Power Cord (JL336A)

No Power Cord JL173A#AC3

No Localization Power Cord Selected

Configuration Rules:

Note 1 The following Transceivers install into this switch:

Aruba 1G SFP LC SX 500m MMF XCVR

Aruba 1G SFP LC LX 10km SMF XCVR

J4858D

No Power Cord

No Localization Power Cord Selected

Aruba 10G SFP+ LC SR 300m MMF XCVR	J9150D
Aruba 10G SFP+ LC LR 10km SMF XCVR	J9151D
Aruba 10G SFP+ LC LRM 220m MMF XCVR	J9152D
Aruba 10G SFP+ to SFP+ 1m DAC Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m DAC Cable	J9283D
Aruba 10G SFP+ to SFP+ 7m DAC Cable	J9285D

Note 2 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or #B2E. (See

Localization Menu)

If #AC3 is selected then no Localized Power Cord is required.

Remarks: OCA Only Model Selection Form -

HPE Offering > Aruba > OfficeConnect - Smart Web Managed Switch:

HPE OfficeConnect 1850 Switch Series

Rack Level Integration CTO Models

HPE OfficeConnect 1850 24G 2XGT Switch • 24 RJ-45 autosensing 10/100/1000 ports • 2 RJ-45 1/10GBASE-T ports • 1U - Height	JL170A See Configuration NOTE:2, 3
PDU Cable NA/MEX/TW/JP • C13 PDU Jumper Cord (NA/MEX/TW/JP)	JL170A#B2B
PDU Cable ROW • C13 PDU Jumper Cord (ROW)	JL170A#B2C
High Volt Switch to Wall Power Cord • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)	JL170A#B2E
No Power Cord • No Localization Power Cord Selected	JL170A#AC3
HPE OfficeConnect 1850 48G 4XGT Switch • 48 RJ-45 autosensing 10/100/1000 ports • 4 RJ-45 1/10GBASE-T ports • 1U - Height	JL171A See Configuration NOTE: 2, 3
PDU Cable NA/MEX/TW/JP • C13 PDU Jumper Cord (NA/MEX/TW/JP)	JL171A#B2B
PDU Cable ROW • C13 PDU Jumper Cord (ROW)	JL171A#B2C
High Volt Switch to Wall Power Cord • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)	JL171A#B2E

JL171A#AC3

Remarks

Configuration

HPE OfficeConnect 1850 24G 2XGT PoE+ 185W Switch JL172A See Configuration 24 RJ-45 autosensing 10/100/1000 PoE+ ports **NOTE: 2.3** • 24 RJ-45 autosensing 10/100/1000 ports 2 RJ-45 1/10GBASE-T ports • 1U - Height PDU Cable NA/MEX/TW/JP JL172A#B2B • C13 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JL172A#B2C • C13 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord JL172A#B2E • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) No Power Cord JL172A#AC3 No Localization Power Cord Selected HPE OfficeConnect 1850 48G 4XGT PoE+ 370W Switch JL173A See Configuration 48 RJ-45 autosensing 10/100/1000 PoE+ ports **NOTE: 2.3** 48 RJ-45 autosensing 10/100/1000 ports • 4 RJ-45 1/10GBASE-T ports • 1U - Height PDU Cable NA/MEX/TW/JP JL173A#B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JL173A#B2C C15 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord JL173A#B2E HPE 2.5m C15 to NEMA 6-20P 250V Non-locking Power Cord (JL336A) No Power Cord JL173A#AC3 No Localization Power Cord Selected **Configuration Rules:** Note 2 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord). (See Localization REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers. If #AC3 is selected then no Localized Power Cord is required. Note 3 If this switch is factory installed in any HP Racks, Then the J9583A#0D1 is required.

Drop down under power cords should offer the following options and results:

#B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)

Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or

Switch/Router/Power Supply to Wall Power Cord - #B2C Localized Option (Watson Default for BTO and Box Level CTO)

High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)
No Power Cord - #AC3 Option

Enter the following menu selections as integrated to the CTO Model X server above if order is factory built.

Transceivers

SFP Transceivers

Aruba 1G SFP LC SX 500m MMF XCVR	J4858D
Aruba 1G SFP LC LX 10km SMF XCVR	J4859D
Aruba 10G SFP+ LC SR 300m MMF XCVR	J9150D
Aruba 10G SFP+ LC LR 10km SMF XCVR	J9151D
Aruba 10G SFP+ LC LRM 220m MMF XCVR	J9152D

Cables

Multi-Mode Cables

Aruba 10G SFP+ to SFP+ 1m DAC Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m DAC Cable	J9283D
Aruba 10G SEP+ to SEP+ 7m DAC Cable	19285D

Switch Enclosure Options

Rail Kit

HPE X410 1U Universal 4-post Rackmount Kit

• Supported on JL170A, JL171A, JL172A, JL173A

J9583A
See Configuration
NOTE:1

Configuration Rules:

Note 1 If this Rail Kit is order with #0D1 then it integrates to the HPE Network Rack. (not the switch)

HPE OfficeConnect 1850 6XGT and 2XGT/SPF+ Switch (JL169A)

I/O ports and slots 6 RJ-45 1/10GBASE-T ports

2 dual-personality ports; each port can be used as either an RJ-45 1/10GBASE-T port or an SFP+

fixed 1000/10000 slot

Physical characteristics Dimensions $9.96(w) \times 10.26(d) \times 1.73(h)$ in $(25.3 \times 26.07 \times 4.4 \text{ cm})$ (1U height)

Weight 3.84 lb (1.74 kg)

Memory and processor BCM53412 embedded ARM Cortex-A9 @ 600 MHz, 128 MB DDR3 SDRAM; Packet buffer size: 2 MB

Performance 100 Mb Latency < 6.8 μs (64-byte packets)

1000 Mb Latency < $2.9 \mu s$ (64-byte packets) **10 Gbps Latency** < $6.8 \mu s$ (64-byte packets)

Throughput up to 119 Mpps

Switching capacity 160 Gbps

MAC address table size 16000 entries

Reliability MTBF (years) 64.5

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 95% @ 149°F (65°C), noncondensing

Altitude up to 9,842 ft (3 km)

Acoustic Power: 45 dB
Airflow direction Side-to-side
Electrical characteristics Frequency 50/60 Hz

Voltage 100 - 127 / 200 - 240 VAC, rated

Current .9/.5 A

Maximum power rating 42.8 W

Idle power 19.4 W

Notes Idle power is the actual power consumption of the device with no ports

connected.

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 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

EN EN 55024, CISPR 24
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
 IEC 61000-4-8

magnetic field

Voltage dips and interruptions

IEC 61000-4-11

 Harmonics
 EN 61000-3-2, IEC 61000-3-2

 Flicker
 EN 61000-3-3, IEC 61000-3-3

Management Web browser

Services Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for

details on the service-level descriptions and product numbers. For details about services and response

times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE OfficeConnect 1850 24G 2XGT Switch (JL170A)

I/O ports and slots 24 RJ-45 auto-negotiating 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 RJ-45 1/10GBASE-T ports

Physical characteristics Dimensions $17.42 \text{ (w)} \times 9.7 \text{ (d)} \times 1.73 \text{ (h)} \text{ in } (44.25 \times 24.64 \times 4.4 \text{ cm)} \text{ (1U height)}$

Weight 5.86 lb (2.66 kg)

Memory and processor BCM53346 embedded ARM Cortex-A9 @ 400 MHz, 128 MB DDR3 SDRAM; Packet buffer size: 1.5

MB

Performance 100 Mb Latency $< 9.1 \mu s (64-byte packets)$

1000 Mb Latency $< 3.7 \mu s$ (64-byte packets) **10 Gbps Latency** $< 3.7 \mu s$ (64-byte packets)

Throughput up to 65 Mpps (64-byte packets)

Switching capacity 88 Gbps

MAC address table size 16000 entries

Reliability MTBF (years) 99

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage -40°F

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage relative humidity

15% to 95% @ 149°F (65°C), noncondensing

Altitude up to 9,842 ft (3 km)

Acoustic Power: 36 dB
Airflow direction Side-to-side
Electrical characteristics Frequency 50/60 Hz

Voltage 100 - 120 / 200 - 240 VAC, rated (200 - 240 VAC, max)

Current .6/.4 A
Maximum power rating 29.5 W
Idle power 19.1 W

Notes Idle power is the actual power consumption of the device with no ports

connected.

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 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

EN EN 55024, CISPR 24

 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
 IEC 61000-4-8

magnetic field

Voltage dips and

interruptions

IEC 61000-4-11

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3, IEC 61000-3-3

Management Web browser

Services Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for

details on the service-level descriptions and product numbers. For details about services and response

times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE OfficeConnect 1850 48G 4XGT Switch (JL171A)

I/O ports and slots 48 RJ-45 auto-negotiating 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 4 RJ-45 1/10GBASE-T ports

Physical characteristics Dimensions $17.42(w) \times 9.7(d) \times 1.73(h)$ in $(44.25 \times 24.64 \times 4.4 \text{ cm})$ (1U height)

Weight 7.05 lb (3.2 kg)

Memory and processor BCM53346 embedded ARM Cortex-A9 @ 400 MHz, 128 MB DDR3 SDRAM; Packet buffer size: 3 MB

Performance 100 Mb Latency $< 9.7 \mu s$ (64-byte packets)

1000 Mb Latency < $3.7 \mu s$ (64-byte packets) **10 Gbps Latency** < $3.7 \mu s$ (64-byte packets)

Throughput up to 131 Mpps (64-byte packets)

Switching capacity 176 Gbps
MAC address table size 16000 entries

Reliability MTBF (years) 79.4

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 95% @ 149°F (65°C), noncondensing

Altitude up to 9,842 ft (3 km)

Acoustic Power: 34 dB
Airflow direction Side-to-side
Electrical characteristics Frequency 50/60 Hz

30/00 112

Voltage 100 - 127 / 200 - 240 VAC, rated

Current 1/.6 A

Maximum power rating 49.3 W

Idle power 30 W

Notes Idle power is the actual power consumption of the device with no ports

connected.

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 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

EN EN 55024, CISPR 24

 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
 IEC 61000-4-8

magnetic field

Voltage dips and IEC 61000-4-11

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3. IEC 61000-3-3

Management Web browser

Services Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for

details on the service-level descriptions and product numbers. For details about services and response

times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE OfficeConnect 1850 24G 2XGT PoE+ 185W Switch (JL172A)

I/O ports and slots 12 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type

100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at); Duplex: 10BASE-

T/100BASE-TX: half or full; 1000BASE-T: full only

12 RJ-45 auto-negotiating 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 RJ-45 1/10GBASE-T ports

Physical characteristics Dimensions 17.42(w) x 9.7(d) x 1.73(h) in (44.25 x 24.64 x 4.4 cm) (1U height)

Weight 7.28 lb (3.3 kg)

Reliability

Technical Specifications

Memory and processor BCM53346 embedded ARM Cortex-A9 @ 400 MHz, 128 MB DDR3 SDRAM; Packet buffer size: 1.5

MΒ

Performance 100 Mb Latency < 8.6 μs (64-byte packets)

1000 Mb Latency < $3.6 \mu s$ (64-byte packets) **10 Gbps Latency** < $3.6 \mu s$ (64-byte packets)

Throughput up to 65 Mpps (64-byte packets)

Switching capacity 88 Gbps **MAC address table size** 16000 entries

MTBF (years) 71.4

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 95% @ 149°F (65°C), noncondensing

Altitude up to 9,842 ft (3 km)

Acoustic Power: 44 dB
Airflow direction Side-to-side

Electrical characteristics Frequency 50/60 Hz

Voltage 100 - 127 / 200 - 240 VAC, rated

Current 2.5/1.3 A

Maximum power rating 222.9 W

Idle power 24.4 W

PoE power 185 W PoE+

Notes Idle power is the actual power consumption of the device with no ports

connected.

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.

PoE Power is the power supplied by the internal power supply, it is dependent on the type and quantity of power supplies and may be supplemented with the use of an External Power Supply (EPS).

Safety UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

EN 55024, CISPR 24

 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
 IEC 61000-4-8

magnetic field

Voltage dips and

IEC 61000-4-11

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2

Flicker EN 61000-3-3, IEC 61000-3-3

Management

Web browser

Services

Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE OfficeConnect 1850 48G 4XGT PoE+ 370W Switch (JL173A)

I/O ports and slots

24 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

24 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type

100BASE-TX, IEEE 802.3ab Type 1000BASE-T)

4 RJ-45 1/10GBASE-T ports

Physical characteristics

Dimensions 17.42(w) x 12.7(d) x 1.73(h) in (44.25 x 32.26 x 4.4 cm) (1U height)

Weight 10.3 lb (4.67 kg)

Memory and processor

BCM53346 embedded ARM Cortex-A9 @ 400 MHz, 128 MB DDR3 SDRAM; Packet buffer size: 3 MB

Performance

100 Mb Latency $< 10 \mu s$ (64-byte packets)1000 Mb Latency $< 3.8 \mu s$ (64-byte packets)10 Gbps Latency $< 3.8 \mu s$ (64-byte packets)

Throughput up to 131 Mpps (64-byte packets)

Switching capacity 176 Gbps

MAC address table size 16000 entries

Reliability

MTBF (years) 57.1

Environment

Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

ildilildil y

-40°F to 158°F (-40°C to 70°C)

15% to 95% (40°C), noncondensing

Nonoperating/Storage

temperature

Nonoperating/Storage

relative humidity

15% to 95% @ 149°F (65°C), noncondensing

Altitude up to 9,842 ft (3 km)

AcousticPower: 40 dBAirflow directionSide-to-sideFrequency50/60 Hz

Electrical characteristics Frequency

Voltage 100 - 127 / 200 - 240 VAC, rated

Current 5/2.4 A

Maximum power rating 446.4 W

Idle power 46.5 W

PoE power 370 W PoE+

Notes Idle power is the actual power consumption of the device with no ports

connected.

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.

PoE Power is the power supplied by the internal power supply, it is dependent on the type and quantity of power supplies and may be supplemented with the use of an External Power Supply (EPS).

Safety UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1

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> ΕN EN 55024, CISPR 24

ESD IEC 61000-4-2 **Radiated** IEC 61000-4-3 **EFT/Burst** IEC 61000-4-4 Surge IEC 61000-4-5 IEC 61000-4-6 Conducted IEC 61000-4-8 **Power frequency**

magnetic field

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Management Web browser

Services Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for

details on the service-level descriptions and product numbers. For details about services and response

times in your area, please contact your local Hewlett Packard Enterprise sales office.

Standards and protocols Denial of service protection

(applies to all products in CPU DoS Protection series)

General protocols

IEEE 802.1AB-2005 Link Layer Discovery Protocol (LLDP) I

IEEE 802.1D Spanning Tree Protocol

IEEE 802.1p Priority IEEE 802.10 VLANs

IEEE 802.1W Rapid Spanning Tree Protocol

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

Accessories

HPE OfficeConnect 1850 Switch Series accessories

HPE OfficeConnect 1850 6XGT and 2XGT/SPF+ Switch (JL169A)	
Aruba 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
Aruba 1G SFP LC LX 10km SMF Transceiver	J4859D
Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151D
Aruba 10G SFP+ LC LRM 220m OM2 MMF Transceiver	J9152D
Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D
Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285D
HPE OfficeConnect 1850 24G 2XGT Switch (JL170A)	
HPE X410 1U Universal 4-post Rackmount Kit	J9583A
HPE OfficeConnect 1850 48G 4XGT Switch (JL171A)	
HPE X410 1U Universal 4-post Rackmount Kit	J9583A
HPE OfficeConnect 1850 24G 2XGT PoE+ 185W Switch (JL172A)	
HPE X410 1U Universal 4-post Rackmount Kit	J9583A
LIDE OfficeCompact 1950 / 9C / VCT DoE / 770W Switch / II 1774)	
HPE OfficeConnect 1850 48G 4XGT PoE+ 370W Switch (JL173A)	10507 4
HPE X410 1U Universal 4-post Rackmount Kit	J9583A

Summary of Changes

Date	Version History	Action	Description of Change:
07-May-2018	Version 3	Changed	Accessories updated
04-Sep-2017	Version 2	Changed	Updates made on Features and benefits
07-Nov-2016	Version 1	Created	Document creation



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