HPE OfficeConnect 1620 Switch Series

Models

HPE OfficeConnect 1620 8G Switch	JG912A
HPE OfficeConnect 1620 24G Switch	JG913A
HPE OfficeConnect 1620 48G Switch	JG914A

Key features

- Entry-level, smart managed layer 2 switches
- 8-, 24-, and 48-port gigabit models are rack mount capable with included hardware
- 8- and 24 port models run quiet (fanless)
- All models include internal power supplies
- Limited Lifetime Warranty

Product overview

HPE OfficeConnect 1620 Switch Series are entry configurable switches for small business networking, a step up from unmanaged devices, with features to enhance network security, performance and reliability. The series is part of the OfficeConnect portfolio of Hewlett Packard Enterprise small business networking products.

These Gigabit switches are plug-and-play out of the box, yet network operations can be fine-tuned through features available from a simple Web browser-based GUI, if necessary. Enhance security using virtual LANs, link aggregation, or IGMP Snooping boost uplink performance, and loop prevention enhances network reliability.
The series consists of 8-, 24-, and 48-port 10/100/1000BASE-T models each providing non-blocking gigabit per port performance. All models can be rack mounted and include the necessary rack-mounting hardware; the 8-port model can also be wall mounted. All models come with internal power supplies and localized power cord removing the need to manage external power adapters. The 8- and 24-port models are fanless for silent operation.
HPE OfficeConnect 1620 Switch Series is covered by 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)
- **Secure Web GUI**
  provides a secure, easy-to-use graphical interface for configuring the switch via HTTPS.
- **SNMPv1, v2c, v3**
  facilitates management of the switch, as the device can 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.
- **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 will fall back to a unique static address determined by the switch's MAC address.
- **Network Time Protocol (NTP)**
  synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time.
- **Manual network time configuration**
  manually set the date and time on the switch in the absence of a NTP server.
- **Dual flash images**
  provides independent primary and secondary operating system files for backup while upgrading
- Limited CLI
  enables users to quickly deploy and troubleshoot devices in the network.

Quality of Service (QoS)

- **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.

- **Rate limiting**
  sets per-port ingress enforced maximums and per-port, per-queue minimums.

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.
- **Loopback detection**
  if the switch detects a loop, it disables the source port from forwarding data packets originating from the switch to avoid broadcast storms.
- **Energy Efficient Ethernet**
  compliant with IEEE 802.3az standard requirements to save energy during periods of low data activity.
- **Port power save mode**
  enables a port to operate at the lowest transmission speed or go down during a specific time range on certain days of a week. The port resumes when the effective time period ends.
- **Cable test**
  performs a check on the status of the cable connected to an Ethernet port on the device. The test determines whether a short circuit or open circuit is present on the cable and the approximate length to the fault in the cable.

Performance

- **Half-/full-duplex auto-negotiating capability on every port**
  doubles the throughput of every port.
- **IGMP snooping, v1, v2 and v3**
  improves network performance through multicast filtering, instead of flooding traffic to all ports.

Layer 2 switching

- **VLAN support and tagging**
  supports IEEE 802.1Q with 4096 simultaneous VLAN IDs.
- **Jumbo frame support**
  supports up to 10 kilobyte frame size to improve the performance of large data transfers.

Resiliency and high availability

- **Link aggregation**
  groups together multiple ports (up to a maximum of eight ports per trunk) automatically using Link Aggregation Control Protocol (LACP), or manually, to form an ultra-high-bandwidth connection to the network backbone; helps prevent traffic bottlenecks. **NOTE:** 8 port model support 4 trunks, 24 port model support 8 trunks, and the 48 port model support 16 trunks.

Warranty and support

- **Limited Lifetime Warranty**
  See **http://www.hpe.com/officeconnect/support** for warranty and support information included with your product purchase.

Configuration

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 1620 8G Switch • 8 RJ-45 autosensing 10/100/1000 ports • 1U - Height	JG912A See Configuration NOTE:1
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG912A#B2B
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (ROW)	JG912A#B2C
High Volt Switch/Router to Wall Power Cord • NEMA L6-20P Cord (NA/MEX/JP/TW)	JG912A#B2E
HPE OfficeConnect 1620 24G Switch • 24 RJ-45 autosensing 10/100/1000 ports • 1U - Height	JG913A See Configuration NOTE:1
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG913A#B2B
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (ROW)	JG913A#B2C
High Volt Switch/Router to Wall Power Cord • NEMA L6-20P Cord (NA/MEX/JP/TW)	JG913A#B2E
HPE OfficeConnect 1620 48G Switch • 48 RJ-45 autosensing 10/100/1000 ports • 1U - Height	JG914A See Configuration NOTE:1
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG914A#B2B
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (ROW)	JG914A#B2C
High Volt Switch/Router to Wall Power Cord • NEMA L6-20P Cord (NA/MEX/JP/TW)	JG914A#B2E

Configuration

Configuration Rules:

Note 1	Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or #B2E. (See Localization Menu)

Internal Power Supplies

Power supplies included

Remarks	Drop down under power supply should offer the following options and results: Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - 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)

HPE OfficeConnect 1620 8G Switch (JG912A)		
I/O ports and slots	8 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	
Additional ports and slots	1 RJ-45 console port to access limited CLI port	
Physical characteristics	**Dimensions**	10.47(w) x 6.38(d) x 1.73(h) in (26.59 x 16.21 x 4.39 cm) (1U height)
	Weight	2.2 lb (1 kg)
Memory and processor	MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 512 KB	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included), wall mount	
Performance	**100 Mb Latency**	< 7 µs
	1000 Mb Latency	< 5 µs
	Throughput	up to 11.9 Mpps (64-byte packets)
	Switching capacity	16 Gbps
	MAC address table size	8192 entries
Reliability	**MTBF (years)**	138.89
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	5% to 95%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	No Fan
Electrical characteristics	**Frequency**	50/60 Hz
	Voltage	100 - 240 VAC, rated
	Maximum power rating	7 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	IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; UL 60950-1 2nd Edition	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A	
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 1620 24G Switch (JG913A)

I/O ports and slots	24 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	
Additional ports and slots	1 RJ-45 console port to access limited CLI port	
Physical characteristics	**Dimensions**	17.32(w) x 6.81(d) x 1.73(h) in (43.99 x 17.3 x 4.39 cm) (1U height)
	Weight	4.85 lb (2.2 kg)
Memory and processor	MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 4.1 MB	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	
Performance	**100 Mb Latency**	< 7 µs
	1000 Mb Latency	< 5 µs
	Throughput	up to 35.7 Mpps (64-byte packets)
	Switching capacity	48 Gbps
	MAC address table size	8192 entries
Reliability	**MTBF (years)**	123.46
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	5% to 95%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	No Fan
Electrical characteristics	**Frequency**	50/60 Hz
	Voltage	100 - 240 VAC, rated
	Maximum power rating	15 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	IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; UL 60950-1 2nd Edition	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A	
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 1620 48G Switch (JG914A)		
I/O ports and slots	48 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	
Additional ports and slots	1 RJ-45 console port to access limited CLI port	
Physical characteristics	**Dimensions**	17.32(w) x 9.37(d) x 1.73(h) in (43.99 x 23.8 x 4.39 cm)
	Weight	7.28 lb (3.3 kg)
Memory and processor	MIPS @ 650 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 512 KB 1.5 MB	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	
Performance	**100 Mb Latency**	< 7 µs
	1000 Mb Latency	< 5 µs
	Throughput	up to 71.4 Mpps (64-byte packets)
	Switching capacity	96 Gbps
	MAC address table size	16384 entries
Reliability	**MTBF (years)**	81.30
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	5% to 95%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	Power: 49.7 dB, Pressure: 49.7 dB; ISO 7779
Electrical characteristics	**Frequency**	50/60 Hz
	Voltage	100 - 240 VAC, rated
	Maximum power rating	28.2 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	IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; UL 60950-1 2nd Edition	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A	
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	**General protocols**

Technical Specifications

Protocols (applies to all products in series)	IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3az Energy Efficient Ethernet IEEE 802.3i 10BASE-T IEEE 802.3x Flow Control

Summary of Changes

Date	Version History	Action	Description of Change:
04-Sep-2017	From Version 5 to 6	Changed	Updates made on Features and benefits
25-Apr-2017	From Version 4 to 5	Changed	Minor edit made on Technical Specifications
07-Apr-2017	From Version 3 to 4	Changed	Minor edit made on Configuration section
06-May-2016	From Version 2 to 3	Changed	Document name changed to HPE OfficeConnect 1620 Switch Series. SKU descriptions, Overview and Technical Specifications updated.
01-Dec-2015	From Version 1 to 2	Changed	Overview and Technical Specifications updated

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