

### Overview

## HP 1620 Switch series

### Models

HP 1620-8G Switch	JG912A
HP 1620-24G Switch	JG913A
HP 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
- HP Limited Lifetime Warranty 2.0

### Product overview

The HP 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.

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. 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. All models come with HP Limited Lifetime Warranty.

### Features and benefits

#### Management

- **Simple Web management**  
allows easy management of devices by nontechnical users with its intuitive Web GUI with administrator and monitor privileges.
- **Secure Web GUI**  
provides a secure, easy-to-use graphical interface for configuring the switch via HTTPS.
- **SNMPv1, v2c, v3**  
enables devices to be discovered and monitored from an SNMP management station.
- **Port mirroring**  
mirrors 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 static IP 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.

### Overview

#### 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 models support 4 trunks, 16 and 24 port models support 8 trunks, 48 port models support 16 trunks.

#### Warranty and support

- **Limited Lifetime Warranty 2.0**

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advance hardware replacement with next-business-day delivery (available in most countries). See [www.hp.com/networking/warrantysummary](http://www.hp.com/networking/warrantysummary) for duration details.

- **Electronic and telephone support (for Limited Lifetime Warranty 2.0)**  
limited 24x7 telephone support is available from HP for the first 3 years; limited electronic and business hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to [www.hp.com/networking/contact-support](http://www.hp.com/networking/contact-support); for details on the duration of support provided with your product purchase, refer to [www.hp.com/networking/warrantysummary](http://www.hp.com/networking/warrantysummary)

### 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.

HP 1620-8G Switch <ul style="list-style-type: none"><li>8 RJ-45 autosensing 10/100/1000 ports</li><li>1U - Height</li></ul>	JG912A See Configuration Note:1
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	JG912A#B2B
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	JG912A#B2C
High Volt Switch/Router to Wall Power Cord <ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	JG912A#B2E
HP 1620-24G Switch <ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100/1000 ports</li><li>1U - Height</li></ul>	JG913A See Configuration Note:1
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	JG913A#B2B
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	JG913A#B2C
High Volt Switch/Router to Wall Power Cord <ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	JG913A#B2E
HP 1620-48G Switch <ul style="list-style-type: none"><li>48 RJ-45 autosensing 10/100/1000 ports</li><li>1U - Height (Desktop Model?)</li></ul>	JG914A See Configuration Note:1
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	JG914A#B2B
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	JG914A#B2C
High Volt Switch/Router to Wall Power Cord <ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	JG914A#B2E

### 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



### Configuration

#### 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)

### Technical Specifications

#### HP 1620-8G Switch (JG912A)

<b>I/O ports and slots</b>	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	
<b>Additional ports and slots</b>	1 RJ-45 console port to access limited CLI port	
<b>Physical characteristics</b>	<b>Dimensions</b>	10.47(w) x 6.38(d) x 1.73(h) in (26.59 x 16.21 x 4.39 cm) (1U height)
	<b>Weight</b>	2.2 lb (1 kg)
<b>Memory and processor</b>	MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 4.1 Mb	
<b>Mounting and enclosure</b>	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included), wall mount	
<b>Performance</b>	<b>100 Mb Latency</b>	< 7 $\mu$ s
	<b>1000 Mb Latency</b>	< 5 $\mu$ s
	<b>Throughput</b>	up to 11.9 Mpps (64-byte packets)
	<b>Switching capacity</b>	48 Gbps
	<b>MAC address table size</b>	8192 entries
<b>Reliability</b>	<b>MTBF (years)</b>	138.89
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	5% to 95%, noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, noncondensing
	<b>Altitude</b>	up to 16,404 ft (5 km)
	<b>Acoustic</b>	No Fan
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>AC Voltage</b>	100 - 240 VAC
	<b>Maximum power rating</b>	7 W
	<b>Notes</b>	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.
<b>Safety</b>	IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; UL 60950-1 2nd Edition	
<b>Emissions</b>	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	
<b>Services</b>	Refer to the HP website at <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

#### HP 1620-24G Switch (JG913A)

<b>I/O ports and slots</b>	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	
<b>Additional ports and slots</b>	1 RJ-45 console port to access limited CLI port	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.32(w) x 6.81(d) x 1.73(h) in (43.99 x 17.3 x 4.39 cm) (1U height)
	<b>Weight</b>	4.85 lb (2.2 kg)
<b>Memory and processor</b>	MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 4.1 Mb	
<b>Mounting and enclosure</b>	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	

### Technical Specifications

<b>Performance</b>	<b>100 Mb Latency</b>	< 7 $\mu$ s
	<b>1000 Mb Latency</b>	< 5 $\mu$ s
	<b>Throughput</b>	up to 35.7 Mpps (64-byte packets)
	<b>Switching capacity</b>	48 Gbps
	<b>MAC address table size</b>	8192 entries
<b>Reliability</b>	<b>MTBF (years)</b>	123.46
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	5% to 95%, noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, noncondensing
	<b>Altitude</b>	up to 16,404 ft (5 km)
<b>Electrical characteristics</b>	<b>Acoustic</b>	No Fan
	<b>Frequency</b>	50/60 Hz
	<b>AC Voltage</b>	100 - 240 VAC
	<b>Maximum power rating</b>	15 W
	<b>Notes</b>	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.
<b>Safety</b>	IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; UL 60950-1 2nd Edition	
<b>Emissions</b>	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	
<b>Services</b>	Refer to the HP website at <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

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#### HP 1620-48G Switch (JG914A)

<b>I/O ports and slots</b>	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	
<b>Additional ports and slots</b>	1 RJ-45 console port to access limited CLI port	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.32(w) x 9.37(d) x 1.73(h) in (43.99 x 23.8 x 4.39 cm)
	<b>Weight</b>	7.28 lb (3.3 kg)
<b>Memory and processor</b>	MIPS @ 650 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 12 Mb	
<b>Mounting and enclosure</b>	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	
<b>Performance</b>	<b>100 Mb Latency</b>	< 7 $\mu$ s
	<b>1000 Mb Latency</b>	< 5 $\mu$ s
	<b>Throughput</b>	up to 71.4 Mpps (64-byte packets)
	<b>Switching capacity</b>	96 Gbps
	<b>MAC address table size</b>	16384 entries
<b>Reliability</b>	<b>MTBF (years)</b>	81.30
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	5% to 95%, noncondensing

### Technical Specifications

	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, noncondensing
	<b>Altitude</b>	up to 16,404 ft (5 km)
	<b>Acoustic</b>	Power: 49.7 dB, Pressure: 49.7 dB; ISO 7779
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>AC Voltage</b>	100 - 240 VAC
	<b>Maximum power rating</b>	28.2 W
	<b>Notes</b>	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.
<b>Safety</b>	IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; UL 60950-1 2nd Edition	
<b>Emissions</b>	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	
<b>Services</b>	Refer to the HP website at <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

<b>Standards and Protocols</b> (applies to all products in series)	<b>General protocols</b>
	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

To learn more, visit: [www.hp.com/networking](http://www.hp.com/networking)

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