



## HP E6600 Switch Series

Data sheet

### Product overview

The HP E6600 Switch Series consists of the most advanced data center server edge switches in the HP networking product line. The E6600 series includes 10/100/1000Base-T and 10 GbE SFP+ 1U rackmount switches enhanced for server edge connectivity with front-to-back (reversible) airflow, redundant hot-swappable power, and redundant hot-swappable fans. The foundation for all of these switches is a purpose-built, programmable ProVision ASIC that allows the most demanding networking features, such as quality of service (QoS) and security, to be implemented in a scalable yet granular fashion. With a variety of connectivity interfaces and expanded buffering, the E6600 switches offer excellent investment protection, flexibility, and scalability, as well as ease of deployment and reduced operational expense.

### Key features

- Enhanced for data center server access layer
- Front-to-back, reversible airflow
- Redundant, hot-swappable power supplies and fans
- 64K MAC address scalability
- Consistent ProVision ASIC-based switch fabric



## Features and benefits

### Quality of Service (QoS)

- **Layer 4 prioritization:** enables prioritization based on TCP/UDP port numbers
- **Class of service (CoS):** sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ
- **Bandwidth shaping:**
  - **Port-based rate limiting:** provides per-port ingress-/egress-enforced maximum bandwidth
  - **Classifier-based rate limiting:** uses access control list (ACL) to enforce maximum bandwidth for ingress traffic on each port
  - **Guaranteed minimum:** provides per-port, per-queue egress-based guaranteed minimum bandwidth
- **Advanced classifier-based QoS:** classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port or per-VLAN basis
- **Traffic prioritization:** allows real-time traffic classification into eight priority levels mapped to eight queues

### Data center optimized

- **Front-to-back airflow:** designed to be co-located at the top of a server rack, the E6600 series supports front-to-back airflow (mechanically reversible) to support hot aisle/cold aisle configurations; the N+N fan tray is also hot-swappable, allowing easy replacement in the rack
- **Modular internal power supplies:** supports redundant, hot-swappable power supply configurations (units ship with one supply); power load is shared across dual supplies
- **Server-to-switch distributed trunking:** supports Layer 2 LACP groups from a single server across two different switches for active-active server NIC teaming configurations
- **Power down idle ports:** power down blocks of idle Gigabit and 10 GbE ports to save power; idle ports can be reinitialized without rebooting; available on E6600-24XG, E6600-48G, and E6600-48G-4XG models

- **Out-of-band management:** remotely monitors and manages switch via Ethernet out-of-band management port; eliminates need for terminal server network; available on E6600-24XG, E6600-48G, and E6600-48G-4XG models
- **Deployment/serviceability:** data connectivity and management ports are all front-side accessible, and power supplies and fan trays are rear-side accessible to allow for easy maintenance and in-rack serviceability

### Management

- **Remote intelligent mirroring:** mirrors ingress/egress ACL-selected traffic from a switch port or VLAN to a local or remote E8200 zl, E6600, E6200 yl, E5400 zl, or E3500 switch port anywhere on the network
- **RMON, XRMON, and sFlow v5:** provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Uni-Directional Link Detection (UDLD):** monitors cable between two switches and shuts down the ports on both ends if the cable is broken, turning the bi-directional link into uni-directional; this prevents network problems such as loops
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol provides easy mapping by network management applications
- **Management simplicity:** common networking features and CLI implementation (common across HP E8200 zl, E6600, E6200 yl, E5400 zl, and E3500 switches)
- **Command authorization:** leverages RADIUS to link a custom list of CLI commands to individual network administrator's login; also provides an audit trail
- **Friendly port names:** allow assignment of descriptive names to ports
- **Multiple configuration files:** can be stored to the flash image
- **Dual flash images:** provide independent primary and secondary operating system files for backup while upgrading

## Connectivity

- **IPv6:**
  - **IPv6 host:** enables switches to be managed and deployed at the IPv6 network's edge
  - **Dual stack (IPv4 and IPv6):** transitions from IPv4 to IPv6, supporting connectivity for both protocols
  - **MLD snooping:** forwards IPv6 multicast traffic to the appropriate interface
  - **IPv6 ACL/QoS:** supports ACL and QoS for IPv6 network traffic, preventing traffic flooding
  - **IPv6 routing:** supports static and OSPFv3 routing protocols
- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- **Jumbo frames:** on Gigabit and 10-Gigabit ports, they allow high-performance remote backup and disaster recovery services

## Performance

- **High-speed/capacity architecture:** based on the purpose-built ProVision ASICs to provide superior system performance and scalability
- **Selectable queue configurations:** allow you to increase performance by selecting the number of queues and associated memory buffering that best meet the requirements of your network applications

## Resiliency and high availability

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP) and HP port trunking:** support up to 60 trunks, each with up to 8 links (ports) per trunk
- **IEEE 802.1s Multiple Spanning Tree:** provides high link availability in multiple VLAN environments by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w
- **Virtual Router Redundancy Protocol (requires Premium License):** allows groups of two routers to dynamically back each other up to create highly available routed environments
- **Sparing simplicity:** common power supplies, fan trays, and transceivers are used among the E6600 series products
- **NEW Distributed trunking:** enables loop-free and redundant network topology without using Spanning Tree Protocol; allows a server or switch to connect to two switches using one logical trunk for redundancy and load sharing

## Layer 2 switching

- **HP's switch meshing:** dynamically load balances across multiple active redundant links to increase available aggregate bandwidth
- **GARP VLAN Registration Protocol (GVRP):** allows automatic learning and dynamic assignment of VLANs
- **IEEE 802.1ad QinQ (requires Premium License):** increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed campus or metro network
- **IEEE 802.1v protocol VLANs:** isolate select non-IPv4 protocols automatically into their own VLANs

## Layer 3 services

- **Loopback interface address:** defines an address in Routing Information Protocol (RIP) and OSPF that can always be reachable, improving diagnostic capability
- **User Datagram Protocol (UDP) helper function:** allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP
- **Route maps:** provide more control during route redistribution; allow filtering and altering of route metrics

## Layer 3 routing

- **Static IP routing:** provides manually configured routing for both IPv4 and IPv6 networks
- **Routing Information Protocol (RIP):** provides RIPv1 and RIPv2 routing
- **OSPF (requires Premium License):** provides OSPFv2 for IPv4 routing and OSPFv3 for IPv6 routing

## Security

- **Source-port filtering:** allows only specified ports to communicate with each other
- **RADIUS/TACACS+:** eases switch management security administration by using a password authentication server
- **Secure Shell (SSHv2):** encrypts all transmitted data for secure, remote command-line interface (CLI) access over IP networks
- **Port security:** allows access only to specified MAC addresses, which can be learned or specified by the administrator

- **MAC address lockout:** prevents particular configured MAC addresses from connecting to the network
  - **Detection of malicious attacks:** monitors 10 types of network traffic and sends a warning when an anomaly that potentially can be caused by malicious attacks is detected
  - **Secure File Transfer Protocol (FTP):** allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
  - **Switch management logon security:** can require either RADIUS or TACACS+ authentication for secure switch CLI logon
  - **Secure management access:** securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
  - **ICMP throttling:** defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic
  - **Virus throttling:** detects traffic patterns typical of WORM-type viruses and either throttles or entirely prevents the virus from spreading across the routed VLANs or bridged interfaces, without requiring external appliances
  - **STP BPDU port protection:** blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
  - **Dynamic IP lockdown:** works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing
  - **DHCP protection:** blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
  - **Dynamic ARP protection:** blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
  - **USB Secure Autorun (requires HP PCM+):** deploys, diagnoses, and updates a switch using a USB flash drive; works with a secure credential to prevent tampering
  - **STP Root Guard:** protects the root bridge from malicious attack or configuration mistakes
  - **Management Interface Wizard:** helps ensure that management interfaces such as SNMP, telnet, SSH, SSL, Web, and USB are secured to the desired level
  - **Access control lists (ACLs):** provide filtering based on the IP field, source/destination IP address/subnet, and source/destination TCP/UDP port number on a per-VLAN or per-port basis
  - **Multiple user authentication methods:**
    - **Multiple IEEE 802.1X users per port:** provides authentication of multiple IEEE 802.1X users per port
    - **Web-based authentication:** authenticates from Web browser for clients that do not support IEEE 802.1X supplicant
    - **MAC-based authentication:** client is authenticated with the RADIUS server based on client's MAC address
    - **Concurrent IEEE 802.1X, Web, and MAC authentication schemes per port:** switch port accepts up to 32 sessions of IEEE 802.1X, Web, and MAC authentications
  - **Switch CPU protection:** provides automatic protection against malicious network traffic trying to shut down the switch
  - **Identity-driven ACL:** enables implementation of a highly granular and flexible access security policy specific to each authenticated network user
  - **Secure Sockets Layer (SSL):** encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
  - **Security banner:** displays a customized security policy when users log in to the switch
- ### Multicast support
- **IP multicast routing (requires Premium License):** includes PIM Sparse and Dense modes to route IP multicast traffic
  - **IP multicast snooping (data-driven IGMP):** automatically prevents flooding of IP multicast traffic
- ### Warranty and support
- **Lifetime warranty:** for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)\*
  - **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty) for details on the support provided and the period during which support is available
  - **Software releases:** refer to [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty) for details on the software releases provided and the period during which software releases are available for your product(s)

\*Hardware warranty replacement for as long as you own the product, with next business day advance replacement (available in most countries) with a five-year hardware warranty replacement for the disk drive included with HP AllianceONE Services z1 Module, HP Threat Management Services z1 Module, HP PCM+ Agent with AllianceONE Services z1 Module, and HP E-MSM765 z1 Mobility Controller. For details, refer to the HP Software License, Warranty, and Support booklet at [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty).

# HP E6600 Switch Series

## Specifications



**HP E6600-24G Switch (J9263A)**



**HP E6600-24G-4XG Switch (J9264A)**



**HP E6600-24XG Switch (J9265A)**

<b>Ports</b>	20 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only  4 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)  1 RS-232C DB-9 console port	20 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only  4 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)  4 SFP+ 10-GbE ports; Duplex: full only  1 RS-232C DB-9 console port	24 SFP+ 10-GbE ports; Duplex: full only  1 RJ-45 serial console port  1 RJ-45 out-of-band management port
<b>Power supplies</b>	2 power supply slots includes: 1 x J9269A (HP E6600 Switch Power Supply)	2 power supply slots includes: 1 x J9269A (HP E6600 Switch Power Supply)	2 power supply slots includes: 1 x J9269A (HP E6600 Switch Power Supply)
<b>Fan tray</b>	includes: 1 x J9271A 1 fan tray slot Fan tray supports N+N fans for added redundancy.	includes: 1 x J9271A 1 fan tray slot Fan tray supports N+N fans for added redundancy.	includes: 1 x J9271A 1 fan tray slot Fan tray supports N+N fans for added redundancy.
<b>Physical characteristics</b>			
Dimensions	21.5(d) x 17.42(w) x 1.7(h) in. (54.61 x 44.25 x 4.32 cm) (1U height)	21.5(d) x 17.42(w) x 1.7(h) in. (54.61 x 44.25 x 4.32 cm) (1U height)	25.25(d) x 17.42(w) x 1.7(h) in. (64.14 x 44.25 x 4.32 cm) (1U height)
Weight	16.7 lb. (7.58 kg)	17.2 lb. (7.8 kg)	19.7 lb. (8.94 kg)
<b>Memory and processor</b>	Freescall PowerPC 8540 @ 666 MHz, 4 MB flash, 256 MB compact flash, 256 MB DDR SDRAM; packet buffer size: 18 MB QDR SDRAM total (for all 1 GbE ports)	Freescall PowerPC 8540 @ 666 MHz, 4 MB flash, 256 MB compact flash, 256 MB DDR SDRAM; packet buffer size: 36 MB QDR SDRAM total (18 MB for 1 GbE/10 GbE ports)	Freescall PowerPC 8540 @ 666 MHz, 4 MB flash, 1 GB compact flash, 256 MB DDR SDRAM; packet buffer size: 108 MB QDR SDRAM total (for all 10 GbE ports)
<b>Mounting</b>	Includes hardware for 2-post telco rack or equipment cabinet; horizontal surface mounting only. The E6600 Series Rack Kit (J9469A) is required for mounting in 4-post server/networking rack.	Includes hardware for 2-post telco rack or equipment cabinet; horizontal surface mounting only. The E6600 Series Rack Kit (J9469A) is required for mounting in 4-post server/networking rack.	Includes hardware for 2-post telco rack or equipment cabinet; horizontal surface mounting only. The E6600 Series Rack Kit (J9469A) is required for mounting in 4-post server/networking rack.
<b>Performance</b>			
1000 Mb latency	< 3.4 $\mu$ s (FIFO 64-byte packets)	< 3.4 $\mu$ s (FIFO 64-byte packets)	< 2.4 $\mu$ s (FIFO 64-byte packets)
10 Gbps latency			
Throughput	up to 35.7 million pps (64-byte packets)	up to 75.7 million pps (64-byte packets)	up to 240.2 million pps (64-byte packets)
Routing/Switching capacity	48 Gbps	101.8 Gbps	322.8 Gbps
Switch fabric speed	48 Gbps	105.6 Gbps	345.6 Gbps
Routing table size	10000 entries	10000 entries	10000 entries
MAC address table size	64000 entries	64000 entries	64000 entries
<b>Environment</b>			
Operating temperature	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 80% @ 104°F (40°C), noncondensing	15% to 80% @ 104°F (40°C), noncondensing	15% to 80% @ 104°F (40°C), noncondensing
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)
Nonoperating/Storage relative humidity	15% to 90% @ 158°F (70°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft. (3 km)	up to 10,000 ft. (3 km)	up to 10,000 ft. (3 km)
Acoustic	Power: 71 dB, Pressure: 62.3 dB ISO 7779, ISO 9296	Power: 68 dB, Pressure: 59.5 dB ISO 7779, ISO 9296	Power: 72 dB, Pressure: 61.8 dB ISO 7779, ISO 9296
<b>Electrical characteristics</b>		Achieved Miercom Certified Green Award	Achieved Miercom Certified Green Award
Description	The switch automatically adjusts to any voltage between 100-120 and 200-240 V with either 50 or 60 Hz.	The switch automatically adjusts to any voltage between 100-120 and 200-240 V with either 50 or 60 Hz.	The switch automatically adjusts to any voltage between 100-120 and 200-240 V with either 50 or 60 Hz.
Maximum heat dissipation	545 BTU/hr (574.98 kJ/hr)	697 BTU/hr (735.33 kJ/hr)	1382 BTU/hr (1458.01 kJ/hr)
Voltage	100-120/200-240 VAC	100-120/200-240 VAC	100-120/200-240 VAC
Idle power	128.5 W	167.6 W	344.6 W
Maximum power rating	159.7 W	204.3 W	405.4 W
Frequency	50/60 Hz	50/60 Hz	50/60 Hz

# HP E6600 Switch Series

## Specifications (continued)

	HP E6600-24G Switch (J9263A)	HP E6600-24G-4XG Switch (J9264A)	HP E6600-24XG Switch (J9265A)
<b>Notes</b>	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.	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.	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.
<b>Safety</b>	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
<b>Immunity</b>			
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
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
<b>Management</b>	HP PCM+; HP PCM (included); command-line interface; Web browser; configuration menu	HP PCM+; HP PCM (included); command-line interface; Web browser; configuration menu	HP PCM+; HP PCM (included); command-line interface; Web browser; configuration menu
<b>Notes</b>	When using mini-GBICs with this product, mini-GBICs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. Gigabit 1000Base-T mini-GBIC (J8177B) is not supported on E6600 series switches.	When using mini-GBICs with this product, mini-GBICs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. Gigabit 1000Base-T mini-GBIC (J8177B) is not supported on E6600 series switches.	
<b>Services</b>	3-year, 4-hour onsite, 13x5 coverage for hardware (U2855E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U2856E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6304E) 3-year, 24x7 SW phone support, software updates (UE262E) Installation with minimum configuration, system-based pricing (U4826E) Installation with HP-provided configuration, system-based pricing (U4830E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR868E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR869E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR870E) 4-year, 24x7 SW phone support, software updates (UR871E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR873E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR874E) 5-year, 24x7 SW phone support, software updates (UR875E) 3 Yr 6 hr Call-to-Repair Onsite (UW356E) 4 Yr 6 hr Call-to-Repair Onsite (UW357E) 5 Yr 6 hr Call-to-Repair Onsite (UW358E)  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.	3-year, 4-hour onsite, 13x5 coverage for hardware (U2855E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U2856E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6304E) 3-year, 24x7 SW phone support, software updates (UE262E) Installation with minimum configuration, system-based pricing (U4826E) Installation with HP-provided configuration, system-based pricing (U4830E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR868E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR869E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR870E) 4-year, 24x7 SW phone support, software updates (UR871E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR873E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR874E) 5-year, 24x7 SW phone support, software updates (UR875E) 3 Yr 6 hr Call-to-Repair Onsite (UW356E) 4 Yr 6 hr Call-to-Repair Onsite (UW357E) 5 Yr 6 hr Call-to-Repair Onsite (UW358E)  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.	3-year, 4-hour onsite, 13x5 coverage for hardware (U2855E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U2856E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6304E) 3-year, 24x7 SW phone support, software updates (UE262E) Installation with minimum configuration, system-based pricing (U4826E) Installation with HP-provided configuration, system-based pricing (U4830E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR868E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR869E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR870E) 4-year, 24x7 SW phone support, software updates (UR871E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR873E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR874E) 5-year, 24x7 SW phone support, software updates (UR875E) 3 Yr 6 hr Call-to-Repair Onsite (UW356E) 4 Yr 6 hr Call-to-Repair Onsite (UW357E) 5 Yr 6 hr Call-to-Repair Onsite (UW358E)  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 E6600 Switch Series

## Specifications (continued)

	HP E6600-24G Switch (J9263A)	HP E6600-24G-4XG Switch (J9264A)	HP E6600-24XG Switch (J9265A)	
<b>Standards and protocols</b> (applies to all products in series)	<b>Device management</b> RFC 1591 DNS (client) HTML and telnet management  <b>General protocols</b> IEEE 802.1ad Q-in-Q IEEE 802.1AX-2008 Link Aggregation IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1v VLAN classification by Protocol and Port IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 BOOTP RFC 1058 RIPv1 RFC 1350 TFTP Protocol (revision 2) RFC 1519 CIDR RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP RFC 2453 RIPv2 RFC 2548 (MS-RAS-Vendor only) RFC 3046 DHCP Relay Agent Information Option RFC 3576 Ext to RADIUS (CoA only) RFC 3768 VRRP RFC 4675 RADIUS VLAN & Priority UDLD (Uni-directional Link Detection)  <b>IP multicast</b> RFC 3376 IGMPv3 (host joins only) RFC 3973 Draft 2 PIM Dense Mode RFC 4601 Draft 10 PIM Sparse Mode  <b>IPv6</b> RFC 1981 IPv6 Path MTU Discovery	<b>Device management</b> RFC 1591 DNS (client) HTML and telnet management  <b>General protocols</b> IEEE 802.1ad Q-in-Q IEEE 802.1AX-2008 Link Aggregation IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1v VLAN classification by Protocol and Port IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 BOOTP RFC 1058 RIPv1 RFC 1350 TFTP Protocol (revision 2) RFC 1519 CIDR RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP RFC 2453 RIPv2 RFC 2548 (MS-RAS-Vendor only) RFC 3046 DHCP Relay Agent Information Option RFC 3576 Ext to RADIUS (CoA only) RFC 3768 VRRP RFC 4675 RADIUS VLAN & Priority UDLD (Uni-directional Link Detection)  <b>IP multicast</b> RFC 3376 IGMPv3 (host joins only) RFC 3973 Draft 2 PIM Dense Mode RFC 4601 Draft 10 PIM Sparse Mode  <b>IPv6</b> RFC 1981 IPv6 Path MTU Discovery	RFC 2375 IPv6 Multicast Address Assignments RFC 2460 IPv6 Specification RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only) RFC 3019 MLDv1 MIB RFC 3315 DHCPv6 (client and relay) RFC 3484 Default Address Selection for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extension for IPv6 RFC 3810 MLDv2 (host joins only) RFC 4022 MIB for TCP RFC 4113 MIB for UDP RFC 4251 SSHv6 Architecture RFC 4252 SSHv6 Authentication RFC 4253 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4291 IP Version 6 Addressing Architecture RFC 4293 MIB for IP RFC 4294 IPv6 Node Requirements RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4541 IGMP & MLD Snooping Switch RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto-configuration RFC 5095 Deprecation of Type 0 Routing Headers in IPv6 RFC 5340 OSPFv3 for IPv6 RFC 5453 Reserved IPv6 Interface Identifiers RFC 5722 Handling of Overlapping IPv6 Fragments  <b>MIBs</b> RFC 1213 MIB II RFC 1493 Bridge MIB RFC 1724 RIPv2 MIB RFC 1850 OSPFv2 MIB RFC 2021 RMONv2 MIB RFC 2096 IP Forwarding Table MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting MIB RFC 2665 Ethernet-Like-MIB RFC 2668 802.3 MAU MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2737 Entity MIB (Version 2)	RFC 2787 VRRP MIB RFC 2863 The Interfaces Group MIB RFC 2925 Ping MIB  <b>Network management</b> IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 3176 sFlow ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3 XRMON  <b>OSPF</b> RFC 2328 OSPFv2 RFC 3101 OSPF NSSA RFC 5340 OSPFv3 for IPv6  <b>QoS/CoS</b> RFC 2474 DiffServ Precedence, including 8 queues/port RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF)  <b>Security</b> IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ RFC 2865 RADIUS (client only) RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL) SSHv2 Secure Shell

# HP E6600 Switch Series

## Specifications (continued)



**HP E6600-48G Switch (J9451A)**



**HP E6600-48G-4XG Switch (J9452A)**

<b>Ports</b>	<p>44 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>4 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)</p> <p>1 RJ-45 serial console port</p> <p>1 RJ-45 out-of-band management port</p>	<p>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); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>4 SFP+ 10-GbE ports; Duplex: full only</p> <p>1 RJ-45 serial console port</p> <p>1 RJ-45 out-of-band management port</p>
<b>Power supplies</b>	2 power supply slots includes: 1 x J9269A (HP E6600 Switch Power Supply)	2 power supply slots includes: 1 x J9269A (HP E6600 Switch Power Supply)
<b>Fan tray</b>	includes: 1 x J9271A 1 fan tray slot Fan tray supports N+N fans for added redundancy.	includes: 1 x J9271A 1 fan tray slot Fan tray supports N+N fans for added redundancy.
<b>Physical characteristics</b>		
Dimensions	25.25(d) x 17.42(w) x 1.7(h) in. (64.14 x 44.25 x 4.32 cm) (1U height)	25.25(d) x 17.42(w) x 1.7(h) in. (64.14 x 44.25 x 4.32 cm) (1U height)
Weight	20 lb. (9.07 kg)	23.5 lb. (10.66 kg)
<b>Memory and processor</b>	<p>Freescall PowerPC 8540 @ 666 MHz, 4 MB flash, 1 GB compact flash, 256 MB DDR SDRAM; packet buffer size: 36 MB QDR SDRAM total (for all 1 GbE ports)</p>	<p>Freescall PowerPC 8540 @ 666 MHz, 4 MB flash, 1 GB compact flash, 256 MB DDR SDRAM; packet buffer size: 72 MB QDR SDRAM total (36 MB for 1 GbE/10 GbE ports)</p>
<b>Mounting</b>	Includes hardware for 2-post telco rack or equipment cabinet; horizontal surface mounting only. The E6600 Series Rack Kit (J9469A) is required for mounting in 4-post server/networking rack.	Includes hardware for 2-post telco rack or equipment cabinet; horizontal surface mounting only. The E6600 Series Rack Kit (J9469A) is required for mounting in 4-post server/networking rack.
<b>Performance</b>		
1000 Mb Latency	< 3.4 $\mu$ s (FIFO 64-byte packets)	< 3.4 $\mu$ s (FIFO 64-byte packets)
10 Gbps Latency		< 2.4 $\mu$ s (FIFO 64-byte packets)
Throughput	up to 71.4 million pps (64-byte packets)	up to 130.9 million pps (64-byte packets)
Routing/Switching capacity	96 Gbps	176 Gbps
Switch fabric speed	96 Gbps	176 Gbps
Routing table size	10000 entries	10000 entries
MAC address table size	64000 entries	64000 entries
<b>Environment</b>		
Operating temperature	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)
Operating relative humidity	15% to 80% @ 104°F (40°C), noncondensing	15% to 80% @ 104°F (40°C), noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	15% to 90% @ 158°F (70°C), noncondensing	15% to 90% @ 158°F (70°C), noncondensing
Altitude	up to 10,000 ft. (3 km)	up to 10,000 ft. (3 km)
Acoustic	Power: 71.8 dB, Pressure: 64.5 dB ISO 7779, ISO 9296	Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296
<b>Electrical characteristics</b>		
Description	The switch automatically adjusts to any voltage between 100-120 and 200-240 V with either 50 or 60 Hz.	The switch automatically adjusts to any voltage between 100-127 and 200-240 V with either 50 or 60 Hz.
Maximum heat dissipation	713 BTU/hr (752.21 kJ/hr)	890 BTU/hr (938.95 kJ/hr)
Voltage	100-120/200-240 VAC	100-120/200-240 VAC
Idle power	180 W	226 W
Maximum power rating	209 W	261 W
Frequency	50/60 Hz	50/60 Hz
Notes	<p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>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.</p>	<p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>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.</p>
<b>Safety</b>	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
<b>Immunity</b>		
EN	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3

# HP E6600 Switch Series

## Specifications (continued)

	HP E6600-48G Switch (J9451A)	HP E6600-48G-4XG Switch (J9452A)
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	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
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	HP PCM+; HP PCM (included); command-line interface; Web browser; configuration menu	HP PCM+; HP PCM (included); command-line interface; Web browser; configuration menu
<b>Notes</b>	When using mini-GBICs with this product, mini-GBICs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. Gigabit 1000Base-T mini-GBIC (J8177B) is not supported on E6600 series switches.	
<b>Services</b>	3-year, 4-hour onsite, 13x5 coverage for hardware (H4496E) 3-year, 4-hour onsite, 24x7 coverage for hardware (H2893E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6319E) 3-year, 24x7 SW phone support, software updates (UE264E) Installation with minimum configuration, system-based pricing (U4826E) Installation with HP-provided configuration, system-based pricing (U4830E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR884E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR885E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR886E) 4-year, 24x7 SW phone support, software updates (UR887E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR888E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR889E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR890E) 5-year, 24x7 SW phone support, software updates (UR891E) 3 Yr 6 hr Call-to-Repair Onsite (UW365E) 4 Yr 6 hr Call-to-Repair Onsite (UW366E) 5 Yr 6 hr Call-to-Repair Onsite (UW367E)	3-year, 4-hour onsite, 13x5 coverage for hardware (H4496E) 3-year, 4-hour onsite, 24x7 coverage for hardware (H2893E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6319E) 3-year, 24x7 SW phone support, software updates (UE264E) Installation with minimum configuration, system-based pricing (U4826E) Installation with HP-provided configuration, system-based pricing (U4830E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR884E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR885E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR886E) 4-year, 24x7 SW phone support, software updates (UR887E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR888E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR889E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR890E) 5-year, 24x7 SW phone support, software updates (UR891E) 3 Yr 6 hr Call-to-Repair Onsite (UW365E) 4 Yr 6 hr Call-to-Repair Onsite (UW366E) 5 Yr 6 hr Call-to-Repair Onsite (UW367E)
	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.	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.

## Specifications (continued)

### HP E6600-48G Switch (J9451A)

#### Standards and protocols (applies to all products in series)

#### Device management

RFC 1591 DNS (client)  
HTML and telnet management

#### General protocols

IEEE 802.1ad Q-in-Q  
IEEE 802.1AX-2008 Link Aggregation  
IEEE 802.1D MAC Bridges  
IEEE 802.1p Priority  
IEEE 802.1Q VLANs  
IEEE 802.1s Multiple Spanning Trees  
IEEE 802.1v VLAN classification by Protocol and Port  
IEEE 802.1w Rapid Reconfiguration of Spanning Tree  
IEEE 802.3ad Link Aggregation Control Protocol (LACP)  
IEEE 802.3x Flow Control  
RFC 768 UDP  
RFC 783 TFTP Protocol (revision 2)  
RFC 792 ICMP  
RFC 793 TCP  
RFC 826 ARP  
RFC 854 TELNET  
RFC 868 Time Protocol  
RFC 951 BOOTP  
RFC 1058 RIPv1  
RFC 1350 TFTP Protocol (revision 2)  
RFC 1519 CIDR  
RFC 1542 BOOTP Extensions  
RFC 2030 Simple Network Time Protocol (SNTP) v4  
RFC 2131 DHCP  
RFC 2453 RIPv2  
RFC 2548 (MS-RAS-Vendor only)  
RFC 3046 DHCP Relay Agent Information Option  
RFC 3576 Ext to RADIUS (CoA only)  
RFC 3768 VRRP  
RFC 4675 RADIUS VLAN & Priority  
UDLD (Uni-directional Link Detection)

#### IP multicast

RFC 3376 IGMPv3 (host joins only)  
RFC 3973 Draft 2 PIM Dense Mode  
RFC 4601 Draft 10 PIM Sparse Mode

#### IPv6

RFC 1981 IPv6 Path MTU Discovery

### HP E6600-48G-4XG Switch (J9452A)

RFC 2375 IPv6 Multicast Address Assignments  
RFC 2460 IPv6 Specification  
RFC 2464 Transmission of IPv6 over Ethernet Networks  
RFC 2710 Multicast Listener Discovery (MLD) for IPv6  
RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)  
RFC 3019 MLDv1 MIB  
RFC 3315 DHCPv6 (client and relay)  
RFC 3484 Default Address Selection for IPv6  
RFC 3587 IPv6 Global Unicast Address Format  
RFC 3596 DNS Extension for IPv6  
RFC 3810 MLDv2 (host joins only)  
RFC 4022 MIB for TCP  
RFC 4113 MIB for UDP  
RFC 4251 SSHv6 Architecture  
RFC 4252 SSHv6 Authentication  
RFC 4253 SSHv6 Transport Layer  
RFC 4254 SSHv6 Connection  
RFC 4291 IP Version 6 Addressing Architecture  
RFC 4293 MIB for IP  
RFC 4294 IPv6 Node Requirements  
RFC 4419 Key Exchange for SSH  
RFC 4443 ICMPv6  
RFC 4541 IGMP & MLD Snooping Switch  
RFC 4861 IPv6 Neighbor Discovery  
RFC 4862 IPv6 Stateless Address Auto-configuration  
RFC 5095 Deprecation of Type 0 Routing Headers in IPv6  
RFC 5340 OSPFv3 for IPv6  
RFC 5453 Reserved IPv6 Interface Identifiers  
RFC 5722 Handling of Overlapping IPv6 Fragments

#### MIBs

RFC 1213 MIB II  
RFC 1493 Bridge MIB  
RFC 1724 RIPv2 MIB  
RFC 1850 OSPFv2 MIB  
RFC 2021 RMONv2 MIB  
RFC 2096 IP Forwarding Table MIB  
RFC 2613 SMON MIB  
RFC 2618 RADIUS Client MIB  
RFC 2620 RADIUS Accounting MIB  
RFC 2665 Ethernet-Like-MIB  
RFC 2668 802.3 MAU MIB  
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB  
RFC 2737 Entity MIB (Version 2)

RFC 2787 VRRP MIB  
RFC 2863 The Interfaces Group MIB  
RFC 2925 Ping MIB

#### Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)  
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)  
RFC 3176 sFlow  
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)  
SNMPv1/v2c/v3  
XRMON

#### OSPF

RFC 2328 OSPFv2  
RFC 3101 OSPF NSSA  
RFC 5340 OSPFv3 for IPv6

#### QoS/CoS

RFC 2474 DiffServ Precedence, including 8 queues/port  
RFC 2597 DiffServ Assured Forwarding (AF)  
RFC 2598 DiffServ Expedited Forwarding (EF)

#### Security

IEEE 802.1X Port Based Network Access Control  
RFC 1492 TACACS+  
RFC 2865 RADIUS (client only)  
RFC 2866 RADIUS Accounting  
Secure Sockets Layer (SSL)  
SSHv2 Secure Shell

# HP E6600 Switch Series accessories

## Modules

HP E6600 Switch Fan Tray (J9271A)

## Transceivers

HP X111 100M SFP LC FX Transceiver (J9054C)  
HP X112 100M SFP LC BX-D Transceiver (J9099B)  
HP X112 100M SFP LC BX-U Transceiver (J9100B)  
HP X132 10G SFP+ LC SR Transceiver (J9150A)  
HP X132 10G SFP+ LC LR Transceiver (J9151A)  
HP X132 10G SFP+ LC LRM Transceiver (J9152A)  
HP X121 1G SFP LC LH Transceiver (J4860C)  
HP X121 1G SFP LC SX Transceiver (J4858C)  
HP X121 1G SFP LC LX Transceiver (J4859C)  
HP X122 1G SFP LC BX-D Transceiver (J9142B)  
HP X122 1G SFP LC BX-U Transceiver (J9143B)  
HP X132 10G SFP+ LC ER Transceiver (J9153A)

## Cables

HP X242 SFP+ SFP+ 1 m Direct Attach Cable (J9281B)  
HP X242 SFP+ SFP+ 3 m Direct Attach Cable (J9283B)  
HP X242 SFP+ SFP+ 7 m Direct Attach Cable (J9285B)  
HP X244 XFP SFP+ 1 m Direct Attach Cable (J9300A)  
HP X244 XFP SFP+ 3 m Direct Attach Cable (J9301A)  
HP X244 XFP SFP+ 5 m Direct Attach Cable (J9302A)  
HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)  
HP 1 m Multimode OM3 LC/LC Optical Cable (AJ834A)  
HP 2 m Multimode OM3 LC/LC Optical Cable (AJ835A)  
HP 5 m Multimode OM3 LC/LC Optical Cable (AJ836A)  
HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A)  
HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)  
HP 50 m Multimode OM3 LC/LC Optical Cable (AJ839A)  
**NEW** HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable (BK837A)  
**NEW** HP 1 m PremierFlex OM3+ LC/LC Optical Cable (BK838A)

**NEW** HP 2 m PremierFlex OM3+ LC/LC Optical Cable (BK839A)

**NEW** HP 5 m PremierFlex OM3+ LC/LC Optical Cable (BK840A)

**NEW** HP 15 m PremierFlex OM3+ LC/LC Optical Cable (BK841A)

**NEW** HP 30 m PremierFlex OM3+ LC/LC Optical Cable (BK842A)

**NEW** HP 50 m PremierFlex OM3+ LC/LC Optical Cable (BK843A)

HP Blc SFP+ 0.5m 10GbE Copper Cable (487649-B21)

HP Blc SFP+ 1m 10GbE Copper Cable (487652-B21)

HP Blc SFP+ 3m 10GbE Copper Cable (487655-B21)

HP Blc SFP+ 5m 10GbE Copper Cable (537963-B21)

HP Blc SFP+ 7m 10GbE Copper Cable (487658-B21)

HP X242 SFP+ to SFP+ 10m Direct Attach Copper Cable (J9286B)

HP X242 SFP+ to SFP+ 15m Direct Attach Copper Cable (J9287B)

## Power Supply

HP E6600 Switch Power Supply (J9269A)

## Mounting Kit

HP E6600 Series Rack Kit (J9469A)

HP E6600-24XG, 48G, 48G-4XG AirPlm Kit (J9480A)

HP E6600-24G and 24G-4XG Air Plenum Kit (J9481A)

## License

HP E6600 Switch Premium License (J9305A)



Products within this series have achieved sufficient scores in each of the rated criteria to achieve the Miercom Certified Green distinction Award. See the Specifications section of this series for more information.

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