



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

Product overview

The HP 6600 Switch Series consists of advanced data center server edge switches. The 6600 Switch Series includes 10/100/1000BASE-T and 10GbE 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 the switch series 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 HP 6600 Switch Series offers excellent investment protection, flexibility, and scalability, as well as ease of deployment and reduced operational expense.

Features and benefits

Software-defined networking

NEW OpenFlow

is a key technology enabling software-defined networking by allowing the separation of data (packet forwarding) and control (routing decision) paths

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 an 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 collocated at the top of a server rack, the 6600 Switch 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

support 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

save power by powering down blocks of idle Gigabit and 10GbE ports; idle ports can be reinitialized without rebooting; available on 6600-24XG and 6600-48G-4XG models

· Out-of-band management

remotely monitors and manages switch via Ethernet out-of-band management port; eliminates the need for terminal server network; available on 6600-24XG and 6600-48G-4XG models

• Deployment/Serviceability

data connectivity and management ports are all front-side accessible, and power supplies and fan trays are rear-side accessible, allowing for easy maintenance and in-rack serviceability

Management

· Remote intelligent mirroring

mirrors selected ingress/egress traffic based on ACL, port, MAC address, or VLAN to a local or remote HP 8200 zl, 6600, 6200 yl, 5400 zl, or 3500 Switch located 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 a cable between two switches and shuts down the ports on both ends if the cable is broken, turning the bidirectional link into a unidirectional one; this prevents network problems such as loops

• IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

automated device discovery protocol provides easy mapping of network management applications

· Management simplicity

provided by common networking features and CLI implementation (common across HP 8200 zl, 6600, 6200 yl, 5400 zl, and 3500 Switches)

• Command authorization

leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity

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

NEW Comware CLI

- Comware-compatible CLI

bridges the experience of HP Comware CLI users who are using the HP ProVision software CLI $\,$

Display and fundamental Comware CLI commands

are embedded in the switch CLI as native commands; display output is formatted as on Comware-based switches, and fundamental commands provide a Comware-familiar initial switch setup

Configuration Comware CLI commands

when Comware commands are entered, CLI help is elicited to formulate the correct ProVision software CLI command

Connectivity

Auto-MDIX

automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports

Jumbo frames

on Gigabit Ethernet and 10-Gigabit ports, jumbo frames allow high-performance remote backup and disaster-recovery services

IPv6

- IPv6 host

enables switches to be managed in an IPv6 network

- 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

- IPv6 routing

supports static and OSPFv3 routing protocols

- 6in4 tunneling

supports encapsulation of IPv6 traffic in IPv4 packets

Performance

· High-speed, high-capacity architecture

based on the purpose-built ProVision ASICs to provide superior system performance and scalability

· Selectable queue configurations

allows for increased performance by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications

Resiliency and high availability

IEEE 802.3ad Link Aggregation Control Protocol (LACP) and HP port trunking

support up to 144 trunks, each with up to eight 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

Spares simplicity

is made possible through the use of common power supplies, fan trays, and transceivers

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

• Uplink Failure Detection

provides active-standby network path redundancy for servers that are configured for active-standby NIC teaming

Layer 2 switching

· HP switch meshing

dynamically load-balances across multiple active redundant links to increase available aggregate bandwidth

• GARP VLAN Registration Protocol

allows automatic learning and dynamic assignment of VLANs

• IEEE 802.1ad Q-in-Q (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

Rapid Per-VLAN Spanning Tree (RPVST+)

allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+

Layer 3 services

Loopback interface address

defines an address in Routing Information Protocol (RIP) and OSPF, 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

• BGP (requires Premium License)

provides IPv4 Border Gateway Protocol routing that is scalable, robust, and flexible

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

encrypts all transmitted data for secure remote 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 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 attacks or configuration mistakes

· Management Interface Wizard

helps secure management interfaces such as SNMP, telnet, SSH, SSL, Web, and USB at 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

authenticates 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

Convergence

· Auto VLAN configuration for voice

- RADIUS VLAN

uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones

CDPv2

uses CDPv2 to configure legacy IP phones

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)†

†HP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services 2l Modules, HP Threat Management Services 2l Module, HP AllianceOne Extended 2l Module with Riverbed Steelhead, HP MSM7652l Mobility Controller and HP Survivable Branch Communication 2l Module powered by Microsoft Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at www.hp.com/networking/warranty.

Electronic and telephone support

limited electronic and telephone support is available from HP; to reach our support centers, refer to 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

Software releases

to find software for your product, refer to www.hp.com/networking/support; for details on the software releases available with your product purchase, refer to www.hp.com/networking/warrantysummary

Specifications

Page 1		DI - J ##### ####### ****	**************************************	
1985.5-1,168.09.23.1 type 100845-1,168.09.23.1 type 100845-1,168.09.		HP 6600-24G-4XG Switch (J9264A)	HP 6600-24XG Switch (J9265A)	HP 6600-48G-4XG Switch (J9452A)
Type 1000/1005 Type 1000/1005 Type Anno MRIC Puplier 1000 Type 1000/1005 Type	Ports		24 SFP+ 10-GbE ports; Duplex: full only	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3
		· · · · · · · · · · · · · · · · · · ·	1 RJ-45 serial console port	802.3ab Type 1000BASE-T); Media Type: Auto-MDIX;
Ada-personality ports; each port can be seed as either and 14-53 10/10/10/00 port IEEE 802.2 Specific 1805-51.2 Specific 1805		10BASE-T/100BASE-TX: half or full; 1000BASE-T: full	·	Duplex: 10BASE-T/100BASE-TX: half or full;
### RP ### RP ## R		only	1 RJ-45 out-of-band management port	1000BASE-T: full only
REE REG 2.31 pys 1008AST-Tay EEE 802-3a p)		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		4 SFP+ 10-GbE ports; Duplex: full only
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Power supplies 2 power supply slots includes: 1 x x x x x x x x x x x x x x x x x x		4 SFP+ 10-GbE ports; Duplex: full only		
Includes 1		1 RS-232C DB-9 console port		
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Paysized Interestricts	Fan tray	includes: 1 x J9271A	includes: 1 x J9271A	includes: 1 x J9271A
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Memory and processor Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 256 MB compact flash, 256 MB DDR SDRAM; packet buffer size: 36 MB QDR SDRAM tool (18 MB for 1 GBC/10 GBC ports) Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 1 GB compact flash, 256 MB DDR SDRAM; packet buffer size: 36 MB QDR SDRAM tool (18 MB for 1 GBC/10 GBC ports) Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 1 GB compact flash, 256 MB DDR SDRAM; packet buffer size: 36 MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 1 GB compact flash, 256 MB DDR SDRAM; packet buffer size: 26 MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB for 1 GBC/10 GBC ports) Tool MB QDR SDRAM tool (16 mB ports) Tool MB QDR SDRAM tool (16 mB ports) Tool MB QDR SDRAM tool (16 mB ports)				
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Operating temperature 41°F to 104°F (5°C to 40°C) 32°F to 104°F (0°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 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, noncondensing Nonoperating/Storage relative humidity 15% to 90% @ 149°F (65°C), noncondensing 15% to 90% @ 149°F (65°C), noncondensing 15% to 90% @ 158°F (-70°C), noncondensing Altitude up to 1,0,000 ft (3 km) up to 10,000 ft (3 km) power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 <td>MAC address table size</td> <td>64000 entries</td> <td>64000 entries</td> <td>64000 entries</td>	MAC address table size	64000 entries	64000 entries	64000 entries
Operating relative humidity 15% to 80% @ 104°F (40°C), noncondensing 40°F to 158°F (-40°C to 70°C) -40°F to 158°F (-40°C to 70°C) <td< td=""><td>Environment</td><td></td><td></td><td></td></td<>	Environment			
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% @ 149°F (65°C), noncondensing 15% to 90% @ 149°F (65°C), noncondensing 15% to 90% @ 158°F (-40°C to 70°C) Altitude up to 10,000 ft (3 km) Acoustic Power: 68 dB, Pressure: 59.5 dB ISO 7779, ISO 9296 Power: 72 dB, Pressure: 61.8 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Electrical characteristics Achieved Miercom Certified Green Award Achieved Miercom Certified Green Award 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. No 100-120/200-240 V with either 50 or 60 Hz. No 100-120/200-240 V with either 50 or 60 Hz. No 100-120/200-240 V with either 50 or 60 Hz. No 100-120/200-240 V with either 50 or 60 Hz. No 100-120/200-240 V with either 50 or 60 Hz. No 100-120/200-240 V with either 50 or 60 Hz. No 100-120/200-240 V with either 50 or 60 Hz. No 100-120/200-240 V with either 50 or 60 Hz. No 100-120/200-24	Operating temperature	41°F to 104°F (5°C to 40°C)	32°F to 104°F (0°C to 40°C)	41°F to 104°F (5°C to 40°C)
Nonoperating/Storage relative humidity 15% to 90% @ 149°F (65°C), noncondensing 15% to 90% @ 149°F (65°C), noncondensing 15% to 90% @ 149°F (65°C), noncondensing 15% to 90% @ 158°F (70°C), noncondensin	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
Altitude up to 10,000 ft (3 km) up to 10,000 ft (4 km) up to 10,000	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)
Acoustic Power: 68 dB, Pressure: 59.5 dB ISO 7779, ISO 9296 Power: 72 dB, Pressure: 61.8 dB ISO 7779, ISO 9296 Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296 Electrical characteristics 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. Maximum heat dissipation 697 BTU/hr (735.33 kJ/hr) 1382 BTU/hr (1458.01 kJ/hr) 890 BTU/hr (938.95 kJ/hr) Voltage 100-120/200-240 VAC Idle power 167.6 W Maximum power rating 204.3 W 405.4 W 205.4 W 206.4 W 20	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 158°F (70°C), noncondensing
Electrical characteristics 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. Maximum heat dissipation Voltage 100-120/200-240 VAC Idle power Maximum power rating Achieved Miercom Certified Green Award Achieved Miercom Certified Green Award 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. Hz. Maximum power action 100-120/200-240 VAC 100-120/200-240 VAC 100-120/200-240 VAC 226 W Maximum power rating 204.3 W 405.4 W 261 W	Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)
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. Maximum heat dissipation For BTU/hr (735.33 kJ/hr) 1382 BTU/hr (1458.01 kJ/hr) 100-120/200-240 V WC 100	Acoustic	Power: 68 dB, Pressure: 59.5 dB ISO 7779, ISO 9296	Power: 72 dB, Pressure: 61.8 dB ISO 7779, ISO 9296	Power: 71.8 dB, Pressure: 63.4 dB ISO 7779, ISO 9296
Description The switch automatically adjusts to any voltage between 100-120 and 200-240 V with either 50 or 60 Hz. Maximum heat dissipation 697 BTU/hr (735.33 kJ/hr) 1382 BTU/hr (1458.01 kJ/hr) 890 BTU/hr (938.95 kJ/hr) 100-120/200-240 V WC 100-120/200-240 V W	Electrical characteristics			
between 100-120 and 200-240 V with either 50 or 60 Hz. between 100-120 and 200-240 V with either 50 or 60 Hz. between 100-120 and 200-240 V with either 50 or 60 Hz. between 100-120 and 200-240 V with either 50 or 60 Hz. hz. between 100-120 and 200-240 V with either 50 or 60 Hz. between				
Maximum heat dissipation 697 BTU/hr (735.33 kJ/hr) 1382 BTU/hr (1458.01 kJ/hr) 890 BTU/hr (938.95 kJ/hr) Voltage 100-120/200-240 VAC 100-120/200-240 VAC 100-120/200-240 VAC Idle power 167.6 W 344.6 W 226 W Maximum power rating 204.3 W 405.4 W 261 W	Description	between 100-120 and 200-240 V with either 50 or 60	between 100-120 and 200-240 V with either 50 or 60	between 100-120 and 200-240 V with either 50 or 60
Idle power 167.6 W 344.6 W 226 W Maximum power rating 204.3 W 405.4 W 261 W	Maximum heat dissipation			
Maximum power rating 204.3 W 405.4 W 261 W	Voltage	100-120/200-240 VAC	100-120/200-240 VAC	100-120/200-240 VAC
	Idle power	167.6 W	344.6 W	226 W
Frequency 50/60 Hz 50/60 Hz 50/60 Hz	Maximum power rating	204.3 W	405.4 W	261 W
	Frequency	50/60 Hz	50/60 Hz	50/60 Hz

Specifications (continued)

	HP 6600-24G-4XG Switch (J9264A)	HP 6600-24XG Switch (J9265A)	HP 6600-48G-4XG Switch (J9452A)
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.	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.
Safety	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
Emissions	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
Immunity			
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
Management	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
Notes	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).		
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (U2855E)	3-year, 4-hour onsite, 13x5 coverage for hardware (U2855E)	3-year, 4-hour onsite, 13x5 coverage for hardware (H4496E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (U2856E)	3-year, 4-hour onsite, 24x7 coverage for hardware (U2856E)	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 (U6304E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6304E)	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 (UE262E)	3-year, 24x7 SW phone support, software updates (UE262E)	3-year, 24x7 SW phone support, software updates (UE264E)
	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR889E)	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR889E)	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR894E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR890E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR890E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR895E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR891E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR891E)	Installation with minimum configuration, system-based pricing (U4826E)
	Installation with minimum configuration, system-based pricing (U4826E)	Installation with minimum configuration, system-based pricing (U4826E)	Installation with HP-provided configuration, system-based pricing (U4830E)
	Installation with HP-provided configuration, system-based pricing (U4830E)	Installation with HP-provided configuration, system-based pricing (U4830E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UR884E)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UR868E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UR868E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UR885E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UR869E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UR869E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR886E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR870E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR870E)	4-year, 24x7 SW phone support, software updates (UR887E)
	4-year, 24x7 SW phone support, software updates (UR871E)	4-year, 24x7 SW phone support, software updates (UR871E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UR888E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UR872E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UR872E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UR889E)
	5-year, 4-hour onsite, 24x7 coverage for hardware (UR873E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UR873E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR890E)
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR874E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR874E)	5-year, 24x7 SW phone support, software updates (UR891E)
	5-year, 24x7 SW phone support, software updates (UR875E)	5-year, 24x7 SW phone support, software updates (UR875E)	3 Yr 6 hr Call-to-Repair Onsite (UW365E)
	3 Yr 6 hr Call-to-Repair Onsite (UW356E)	3 Yr 6 hr Call-to-Repair Onsite (UW356E)	4 Yr 6 hr Call-to-Repair Onsite (UW366E)

Specifications (continued)

HP 6600-24G-4XG Switch (J9264A)	HP 6600-24XG Switch (J9265A)	HP 6600-48G-4XG Switch (J9452A)
4 Yr 6 hr Call-to-Repair Onsite (UW357E)	4 Yr 6 hr Call-to-Repair Onsite (UW357E)	5 Yr 6 hr Call-to-Repair Onsite (UW367E)
5 Yr 6 hr Call-to-Repair Onsite (UW358E)	5 Yr 6 hr Call-to-Repair Onsite (UW358E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR898E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR893E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR893E)	1-year, 24x7 software phone support, software updates (HR897E)
1-year, 24x7 software phone support, software updates (HR892E)	1-year, 24x7 software phone support, software updates (HR892E)	1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR896E)
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS610E)	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS610E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS618E)
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS611E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS611E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS619E)
3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS612E)	3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS612E)	3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS620E)
3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS613E)	3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS613E)	3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS621E)
4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS614E)	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS614E)	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS622E)
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS615E)	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS615E)	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS623E)
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS616E)	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS616E)	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS624E)
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS617E)	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS617E)	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS625E)
Refer to the HP website at www.hp.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 HP sales office.	Refer to the HP website at www.hp.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 HP sales office.	Refer to the HP website at www.hp.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 HP sales office.

Specifications (continued)

	HP 6600-24G-4XG Switch (J9264A)	HP 6600-24XG Switch (J9265A)	HP 6600-48G-4XG Switch (J9452A)
Standards and protocols	BGP	IPv6	RFC 2737 Entity MIB (Version 2)
applies to all products in series)	RFC 1997 BGP Communities Attribute	RFC 1981 IPv6 Path MTU Discovery	RFC 2787 VRRP MIB
	RFC 2918 Route Refresh Capability	RFC 2375 IPv6 Multicast Address Assignments	RFC 2863 The Interfaces Group MIB
	RFC 4271 A Border Gateway Protocol 4 (BGP-4)	RFC 2460 IPv6 Specification	RFC 2925 Ping MIB
	RFC 4456 BGP Route Reflection: An Alternative to Full	RFC 2464 Transmission of IPv6 over Ethernet Networks	RFC 2933 IGMP MIB
	Mesh Internal BGP (IBGP)	RFC 2710 Multicast Listener Discovery (MLD) for IPv6	
	RFC 5492 Capabilities Advertisement with BGP-4	RFC 2925 Definitions of Managed Objects for Remote	
	Ni C 3432 Capabilities Advertisement with Dai -4	Ping, Traceroute, and Lookup Operations (Ping only)	Network management
		RFC 3019 MLDv1 MIB	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	Device management	RFC 3315 DHCPv6 (client and relay)	RFC 2819 Four groups of RMON: 1 (statistics), 2 (histor
		RFC 3484 Default Address Selection for IPv6	3 (alarm) and 9 (events)
	RFC 1591 DNS (client)		
	HTML and telnet management	RFC 3587 IPv6 Global Unicast Address Format	RFC 3176 sFlow
		RFC 3596 DNS Extension for IPv6	ANSI/TIA-1057 LLDP Media Endpoint Discovery
		RFC 3810 MLDv2 for IPv6	(LLDP-MED)
	General protocols	RFC 4022 MIB for TCP	SNMPv1/v2c/v3
	IEEE 802.1ad Q-in-Q	RFC 4087 IP Tunnel MIB	XRMON
	IEEE 802.1AX-2008 Link Aggregation	RFC 4113 MIB for UDP	
	IEEE 802.1D MAC Bridges	RFC 4213 Basic Transition Mechanisms for IPv6 Hosts	
	IEEE 802.1p Priority	and Routers	OSPF
	IEEE 802.10 VLANs	RFC 4251 SSHv6 Architecture	RFC 2328 OSPFv2
	IEEE 802.1s Multiple Spanning Trees	RFC 4252 SSHv6 Authentication	RFC 3101 OSPF NSSA
	IEEE 802.1v VLAN classification by Protocol and Port	RFC 4253 SSHv6 Transport Layer	RFC 5340 OSPFv3 for IPv6
	IEEE 802.1w Rapid Reconfiguration of Spanning Tree	RFC 4254 SSHv6 Connection	633 10 031 1 13 101 11 10
	IEEE 802.3ad Link Aggregation Control Protocol (LACP)	RFC 4291 IP Version 6 Addressing Architecture	
	IEEE 802.3x Flow Control	RFC 4293 MIB for IP	QoS/CoS
	RFC 768 UDP	RFC 4294 IPv6 Node Requirements	RFC 2474 DiffServ Precedence, including 8 gueues/po
	RFC 783 TFTP Protocol (revision 2)	RFC 4419 Key Exchange for SSH	RFC 2597 DiffServ Assured Forwarding (AF)
	RFC 792 ICMP	RFC 4443 ICMPv6	RFC 2598 DiffServ Expedited Forwarding (EF)
	RFC 793 TCP	RFC 4541 IGMP & MLD Snooping Switch	
	RFC 826 ARP	RFC 4861 IPv6 Neighbor Discovery	
	RFC 854 TELNET	RFC 4862 IPv6 Stateless Address Auto-configuration	Security
	RFC 868 Time Protocol	RFC 5095 Deprecation of Type 0 Routing Headers in IPv6	IEEE 802.1X Port Based Network Access Control
	RFC 951 B00TP	RFC 5340 OSPFv3 for IPv6	RFC 1492 TACACS+
	RFC 1058 RIPv1	RFC 5453 Reserved IPv6 Interface Identifiers	RFC 2865 RADIUS (client only)
	RFC 1350 TFTP Protocol (revision 2)	RFC 5519 Multicast Group Membership Discovery MIB	RFC 2866 RADIUS Accounting
	RFC 1519 CIDR	(MLDv2 only)	RFC 3579 RADIUS Support For Extensible Authenticati
	RFC 1542 BOOTP Extensions	RFC 5722 Handling of Overlapping IPv6 Fragments	Protocol (EAP)
	RFC 2030 Simple Network Time Protocol (SNTP) v4		Secure Sockets Layer (SSL)
	RFC 2131 DHCP		SSHv2 Secure Shell
	RFC 2453 RIPv2	MIBs	
	RFC 2548 (MS-RAS-Vendor only)	IEEE 802.1ap (MSTP and STP MIB's only)	
	RFC 3046 DHCP Relay Agent Information Option	RFC 1213 MIB II	
	RFC 3576 Ext to RADIUS (CoA only)	RFC 1493 Bridge MIB	
	RFC 3768 VRRP		
		RFC 1724 RIPv2 MIB	
	RFC 4675 RADIUS VLAN & Priority	RFC 1850 OSPFv2 MIB	
	UDLD (Uni-directional Link Detection)	RFC 2021 RMONV2 MIB	
		RFC 2096 IP Forwarding Table MIB	
		RFC 2613 SMON MIB	
	IP multicast	RFC 2618 RADIUS Client MIB	
	RFC 3376 IGMPv3 (host joins only)	RFC 2620 RADIUS Accounting MIB	
	RFC 3973 PIM Dense Mode	RFC 2665 Ethernet-Like-MIB	
	RFC 4601 PIM Sparse Mode	RFC 2668 802.3 MAU MIB	

HP 6600 Switch Series accessories

Modules

HP 6600 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 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281B)

HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283B)

HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable (J9285B)

HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable (J9300A)

HP X244 10G XFP to SFP+ 3m Direct Attach Copper Cable (J9301A)

HP X244 10G XFP to SFP+ 5m Direct Attach Copper 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)

HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable (BK837A)

HP 1 m PremierFlex OM3+ LC/LC Optical Cable (BK838A)

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

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

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

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

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)

... 2203. 3... 10002 copper cubic (101003 22.)

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

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

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

HP X242 10G SFP+ to SFP+ 15m Direct Attach Copper Cable (J9287B)

Power Supply

HP 6600 Switch Power Supply (J9269A)

Mounting Kit

HP 6600 Series Switch Rack Kit (J9469A)

HP 6600-24XG, 48G and 48G-4XG Switch Air Plenum Kit (J9480A)

HP 6600-24G and 24G-4XG Switch Air Plenum Kit (J9481A)

License

HP 6600 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.

To learn more, visit hp.com/networking

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