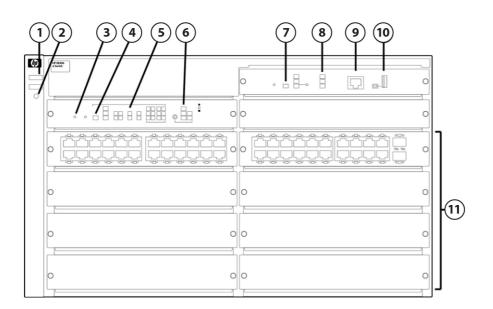
Overview

Product overview

The HP 8200 zl Switch Series offers high performance, scalability, and a wide range of features in a high-availability platform that dramatically reduces complexity and provides reduced cost of ownership. As part of a unified wired and wireless network infrastructure solution, the 8200 zl switch series provides platform technology, system software, system management, application integration, wired and wireless integration, network security, and support that are common across HP modular and fixed-port switches. Together, they deliver an agile, cost-effective, high-availability network solution. With key technologies to provide solution longevity, the 8200 zl switch series is built to deliver long-term investment protection without added complexity for network core, aggregation, and high-availability access layer deployments. It provides these capabilities while bringing to market the industry's first highly available switch with a lifetime warranty.



Front of 8206 zl Switch J9638A

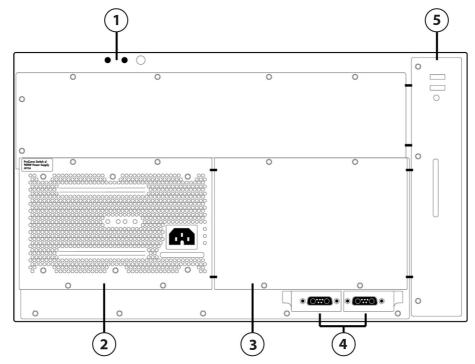
- 1 Power and Fault LEDs
- 2 Locator LED
- 3 Reset and Clear buttons
- 4 Self Test LED
- 5 Status LEDs for the Fans, Power Supplies, and Switch Modules 11
- 6 LED Mode Select button and indicator LEDs

- 7 Management Module Reset button, and Status LEDs
- 8 Component Status LEDs Switch
- 9 Console Port
- 10 Auxiliary Port

Switch Modules and slots with Link and Mode LEDs for each port located on each module



Overview



Back of the 8206zl Switch J9638A

1 Grounding lug mounting holes External

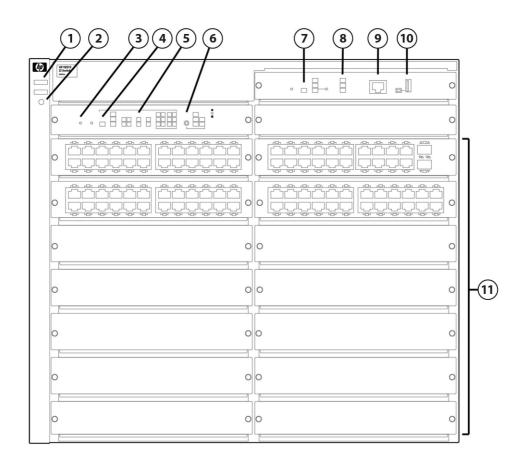
4 External PoE/PoE+ power connectors

- 2 Power supply
 - 3 Optional redundant power supply

- External POE/POE+ power connecto
- 5 Fan Power, Fault and Locator LEDs



Overview



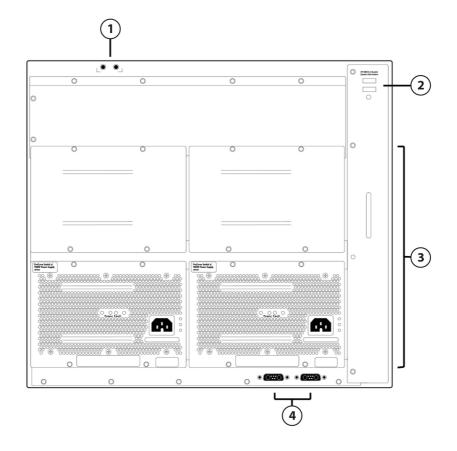
Front of 8212 zlSwitch J9639A

- 1 Power and Fault LEDs
- 2 Locator LED
- 3 Reset and Clear buttons
- 4 Self Test LED
- 5 Status LEDs for the Fans, Power Supplies, and Switch Modules 11
- 6 LED Mode Select button and indicator LEDs

- 7 Management Module Reset button, and Status LEDs
- 8 Component Status LEDs Switch
- 9 Console Port
- 10 Auxiliary Port
 - Switch Modules and slots with Link and Mode LEDs for each port located on each module



Overview



Rear of 8212 zlSwitch J9639A

- 1 Grounding lug mounting holes External
- 2 Fan Power, Fault and Locator LEDs

- 3 Slots for installing power supplies
- 4 External PoE/PoE+ power connectors

Key features

- Core, distribution, mission-critical access layer
- Advanced high-availability AllianceONE integrated
- Layer 2 to 4 and intelligent edge feature set
- Enterprise-class performance and security
- Scalable 10/100/1000 and 10 GbE connectivity

Features and Benefits

Software-defined networking

• NEW OpenFlow

supports OpenFlow 1.0 and 1.3 specifications to enable SDN by allowing separation of the data (packet forwarding) and control



Overview

(routing decision) paths

Quality of Service (QoS)

• 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

• Layer 4 prioritization

enables prioritization based on TCP/UDP port numbers

• Traffic prioritization

allows real-time traffic classification into eight priority levels mapped to eight queues

- Bandwidth shaping
 - $\,\circ\,\,$ Port-based rate limiting

provides per-port ingress-/egress-enforced increased bandwidth

- Classifier-based rate limiting uses an access control list (ACL) to enforce increased bandwidth for ingress traffic on each port
- Reduced bandwidth provides per-port, per-queue egress-based reduced bandwidth

• 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

HP AllianceONE integration

• HP AllianceONE Services zl Module

allows you to embed applications directly into the network, either distributed throughout the network at the network edge or centralized in the core or distribution layer; for more information about the HP AllianceONE solution, visit the HP website

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 anywhere on the network

- RMON, XRMON, and sFlow v5 provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
 advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- 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

- HP unified core-to-edge device/network management tools provide HP networking portfolio-common device-level tools (CLI, Web GUI, and Menu) plus seamless integration into HP PCM+/Identity Driven Manager (IDM) network management deployments
- 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

• Dual flash images



Overview

provides independent primary and secondary operating system files for backup while upgrading or fine-tuning the switch configuration

- Multiple configuration files can be stored to the flash image
- HP unified core-to-edge features
 - HP ProVision portfolio-common feature implementation allows faster solution deployment
- NEW Comware-compatible CLI
 - O Comware-compatible CLI
 - bridges the experience of HP Comware CLI users who are using the HP ProVision software CLI
 - $\,\circ\,\,$ 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

- High-density port connectivity
 provides 12 interface module slots, up to 288 wire-speed 10/100/1000 PoE-enabled ports, or 96 10-GbE ports per system
 EEE 802 2aa Energy Efficient Ethornet
- IEEE 802.3az Energy Efficient Ethernet
 lowers power consumption in periods of low-link usage (supported on v2 zl 10/100/1000 and 10/100 modules)
 IEEE 202.2af Bauvar and Tehernet (Pape)
- IEEE 802.3af Power over Ethernet (PoE) provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras
- IEEE 802.3at Power Over Ethernet Plus
 provides up to 30 W per port to IEEE 802.3 for PoE-/PoE+-powered devices such as video IP phones, IEEE 802.11n wireless
 access points, and advanced pan/zoom/tilt security cameras
- Jumbo frames

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

• HP unified core-to-edge hardware

HP ProVision family-common interface and service modules, Gigabit optics/10 GbE transceivers, and power supplies enable sparing simplicity

Prestandard PoE support

detects and provides power to prestandard PoE devices; see the list of supported devices in the product FAQs at www.hp.com/networking

• Auto-MDIX

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

- IPv6
 - O 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

Overview

\circ 6in4 tunneling

supports encapsulation of IPv6 traffic in IPv4 packets

Performance

• High-speed, high-capacity architecture

1.12 Tbps crossbar switching fabric provides intra-module and inter-module switching with 739.2 million pps throughput on the purpose-built HP ProVision ASICs

- 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
- Scalable system design chassis architecture/backplane provides built-in performance capacity/headroom to support next-generation highdensity/high-speed connectivity

Resiliency and high availability

• NEW Virtual Router Redundancy Protocol (VRRP)

allows groups of two routers to dynamically back each other up to create highly available routed environments in IPv4 and IPv6 networks

Nonstop switching

improves network availability to better support critical applications such as unified communication and mobility; interface and fabric modules continue switching traffic during failover from active to standby management module

• Nonstop routing

enhances Layer 3 high availability; OSPFv2/v3 and VRRP will continue to operate and route network traffic during failover from an active to a standby management module

Redundant management, fabric, and power

provide enhanced system availability and continuity of operations

• 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

- IEEE 802.1s Multiple Spanning Tree Protocol provides high link availability in multiple VLAN environments by allowing multiple spanning trees; encompasses IEEE 802.1D Spanning Tree Protocol and IEEE 802.1w Rapid Spanning Tree Protocol
- 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
- Proven ASIC and system architecture the HP ProVision ASIC and platform architecture, leveraged from HP's successful 5400 zl, 3500, 6600, and 6200 yl switch series, reduces technology risk and provides reliable support and flexibility
- HP zl family components

employ market-proven intelligent edge switch interface modules, optics, and power supplies to reduce technology risk and enhance system reliability

• Hot-swappable modules

interface, management, and fabric modules as well as mini-GBIC optics and power supplies can be removed, swapped, or added to the system without interrupting ongoing switch operations

Redundant, hot-swappable cooling

redundant fan design and hot-swappable fan tray provide continuity of operation in case of a single fan failure

• Passive system design

passive chassis backplane (no traffic-forwarding active componentry) provides system reliability and reduces the impact of a component failure



Overview

- Virtual Route Redundancy Protocol
 - allows groups of two routers to dynamically back each other up to create highly available routed environments
- NEW SmartLink
 provides easy-to-configure link redundancy of active and standby links

Layer 2 switching

- VLAN support and tagging supports the IEEE 802.1Q standard and 2,048 VLANs simultaneously
- IEEE 802.1v protocol VLANs isolate select non-IPv4 protocols automatically into their own VLANs
- GARP VLAN Registration Protocol allows automatic learning and dynamic assignment of VLANs
- IEEE 802.1ad Q-in-Q increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed
- campus or metro network
- MAC-based VLAN

provides granular control and security; uses RADIUS to map a MAC address/user to specific VLANs (requires v2 modules)

• Rapid Per-VLAN Spanning Tree (RPVST+)

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

• HP switch meshing

dynamically load balances across multiple active redundant links to increase available aggregate bandwidth; allows concurrent Layer 3 routing with v2 modules

Layer 3 services

- 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
 Loopback interface address
 defines an address in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability
- 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

provides OSPFv2 for IPv4 routing and OSPFv3 for IPv6 routing

 Policy-based routing uses a classifier to select traffic that can be forwarded based on policy set by the network administrator (requires v2 modules)
 Border Gateway Protocol (BGP)

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

Security

• Access control lists (ACLs)



Overview

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
 - IEEE 802.1X users per port provides authentication of multiple IEEE 802.1X users per port
 - Web-based authentication authenticates from a Web browser for clients that do not support IEEE 802.1X supplicant
 - MAC-based authentication authenticates client with the RADIUS server based on a client's MAC address
 - Concurrent IEEE 802.1X, Web, and MAC authentication schemes per port accepts up to 32 sessions of IEEE 802.1X, Web, and MAC authentications
- 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

• DHCP protection

blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks

• Secure management access

securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3

- Management Interface Wizard helps secure management interfaces such as SNMP, telnet, SSH, SSL, Web, and USB at the desired level
- Switch CPU protection

provides automatic protection against malicious network traffic trying to shut down the switch

• ICMP throttling

defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic

• Identity-driven ACL

enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each authenticated network user

• 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

- **Dynamic ARP protection** blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- Detection of malicious attacks
 monitors 10 types of notwork traffic and conds a w

monitors 10 types of network traffic and sends a warning when an anomaly that potentially can be caused by malicious attacks is detected

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

• 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
- Secure Sockets Layer (SSL) encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
 - Secure FTP

allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch



Overview

configuration file

Switch management logon security

can require either RADIUS or TACACS+ authentication for secure switch CLI logon

- Security banner displays a customized security policy when users log in to the switch
- 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

• Integrated Threat Management applications includes advanced, scalable, switch-integrated security tools such as stateful firewall, intrusion detection/prevention system (IDS/IPS), and VPN concentrator via the HP Threat Management Services zl Module

Convergence

• IP multicast routing

includes PIM Sparse and Dense modes to route IP multicast traffic

- IP multicast snooping (data-driven IGMP) automatically prevents flooding of IP multicast traffic
- LLDP-MED (Media Endpoint Discovery) is a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
 PoE allocations
- support multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user specified) to allocate PoE power for more efficient energy savings
- Auto VLAN configuration for voice
 - O RADIUS VLAN

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

O CDPv2

uses CDPv2 to configure legacy IP phones

NEW Local MAC Authentication

assigns attributes such as VLAN and QoS using locally configured profile that can be a list of MAC prefixes

Flexibility

• Unified wired and wireless deployment and management

employs the MSM765zl mobility controller and offers secure, advanced wireless services with simplified management and unified wired and wireless operation across the network

• Complete feature set

provides Gigabit PoE for edge VoIP solutions, scalable 10 GbE for enterprise-class distribution-layer implementations, advanced wireless management for comprehensive mobility solutions, and critical high-availability features for midmarket core network deployments

Programmable ASIC design

allows the seamless addition of new QoS and security features over time without costly hardware upgrades

Warranty and support

• Lifetime Warranty 2.0:

advance hardware replacement for as long as you own the product with next-business-day delivery (available in most countries)†
Electronic and telephone support (for Lifetime Warranty 2.0):



Overview

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; 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

the 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 zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765zl Mobility Controller and HP Survivable Branch Communication zl 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.



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.

Standard Switch Chassis

Standard Switch Lhassis	
HP 8206 zl Switch w/Premium Software	J9640A
• 1 Power Supply required	
 1 - J9092A - HP E8200 zl Management Module Included 	
 2 - J9093A - HP E8200 zl Fabric Module Included 	
 1 - J9095A - HP E8200 zl System Support Module Included 	
• 6U - Height	
HP 8206-44G-PoE+-2XG v2 zl Swch w Pm SW	J9638A
• 44 RJ-45 autosensing 10/100/1000 PoE+ ports	See Configuration
 1 - J9306A - HP 1500 W PoE+ zl Power Supply Included 	Note:1, 2, 5
 1 - J9092A - HP E8200 zl Management Module Included 	
 2 - J9093A - HP E8200 zl Fabric Module Included 	
 1 - J9095A - HP E8200 zl System Support Module Included 	
 1 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 	
• 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+	
Transceivers)	
• 6U - Height	
	106284
PDU CABLE NA/MEX/TW/JP	J9638A
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU CABLE ROW	J9638A
C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	J9638A
NEMA L6-20P Cord (NA/MEX/JP/TW)	550501
HP 8212 zl Switch with Premium Software	J9641A
• 2 Power Supply required	
 1 - J9092A - HP E8200 zl Management Module Included 	
 2 - J9093A - HP E8200 zl Fabric Module Included 	
 1 - J9095A - HP E8200 zl System Support Module Included 	
• 9U - Height	
HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW	J9639A
• 92 RJ-45 autosensing 10/100/1000 PoE+ ports	See Configuration
 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included 	Note:1, 2, 5
 1 - J9092A - HP E8200 zl Management Module Included 	
 2 - J9093A - HP E8200 zl Fabric Module Included 	
 1 - J9095A - HP E8200 zl System Support Module Included 	
 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 	
 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ 	

 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers)



Configuration

• 9U - Height

PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP)				
PDU CABLE ROW • C15 PDU Jumper C	ord (ROW)	J96:	39A	
High Volt Switch to Wall F • NEMA L6-20P Cord		J96:	39A	
Note 1	The following Transceivers install into this Chassis: HP X121 1G SFP LC SX Transceiver	J4858C		
	HP X121 1G SFP LC LX Transceiver	J4859C		
	HP X121 1G SFP LC LH Transceiver	J4860C		
	HP X121 1G SFP RJ45 T Transceiver	J8177C		
	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		
	HP X132 10G SFP+ LC LR Transceiver	J9151A		
	HP X132 10G SFP+ LC LRM Transceiver	J9152A		
	HP X132 10G SFP+ LC SR Transceiver	J9150A		
	HP X242 SFP+ SFP+ 1m Direct Attach Cable	J9281B		
	HP X242 SFP+ SFP+ 3m Direct Attach Cable	J9283B		
	HP X242 SFP+ SFP+ 7m Direct Attach Cable	J9285B		
	HP X244 XFP SFP+ 1m Direct Attach Cable	J9300A		
	HP X244 XFP SFP+ 3m Direct Attach Cable	J9301A		
	HP X244 XFP SFP+ 5m Direct Attach Cable	J9302A		
	HP X242 10G SFP+ 10m DAC Cable	J9286B		
	HP X242 10G SFP+ 15m DAC Cable	J9287B		
Note 2	Localization required. (See Localization Menu for list.)			
Note 5	If #B2E is selected Then replace Localized option with #B2E #B2E for switch . (Offered only in North America, Mexico Tai			

Box Level Integration CTO Models

CTO Solution Sku

HP 82xx CTO Switch Solution

• SSP trigger sku

CTO Base Sku





J9849A

 HP 8206 zl Switch w/Premium Software - CTO 1 Power Supply required 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 6U - Height 	J9640A See Configuration Note:9
 HP 8206-44G-PoE+-2XG v2 zl Swch w Pm SW - CTO 44 RJ-45 autosensing 10/100/1000 PoE+ ports 1 - J9306A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 1 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 6U - Height 	J9638A See Configuration Note:1, 2, 5, 8, 9
PDU CABLE NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	#B2B
PDU CABLE ROW C15 PDU Jumper Cord (ROW) 	#B2C
 High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 	#B2E
 HP 8212 zl Switch with Premium Software - CTO 2 Power Supply required 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 9U - Height 	J9641A See Configuration Note:9
 HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO 92 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height 	J9639A See Configuration Note:1, 2, 5, 8, 9
 PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 	#B2B



Configura	tion	
PDU CABLE R		#B2C
• C15 P	DU Jumper Cord (ROW)	
-	itch to Wall Power Cord L6-20P Cord (NA/MEX/JP/TW)	#B2E
Note 1	The following Transceivers install into this Chassis :	
	HP X121 1G SFP LC SX Transceiver	J4858C
	HP X121 1G SFP LC LX Transceiver	J4859C
	HP X121 1G SFP LC LH Transceiver	J4860C
	HP X121 1G SFP RJ45 T Transceiver	J8177C
	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
	HP X132 10G SFP+ LC LR Transceiver	J9151A
	HP X132 10G SFP+ LC LRM Transceiver	J9152A
	HP X132 10G SFP+ LC SR Transceiver	J9150A
	HP X242 SFP+ SFP+ 1m Direct Attach Cable	J9281B
	HP X242 SFP+ SFP+ 3m Direct Attach Cable	J9283B
	HP X242 SFP+ SFP+ 7m Direct Attach Cable	J9285B
	HP X244 XFP SFP+ 1m Direct Attach Cable	J9300A
	HP X244 XFP SFP+ 3m Direct Attach Cable	J9301A
	HP X244 XFP SFP+ 5m Direct Attach Cable	J9302A
	HP X242 10G SFP+ 10m DAC Cable	J9286B
	HP X242 10G SFP+ 15m DAC Cable	J9287B
Note 2	Localization required (See Localization Menu)	
Note 5	If #B2E is selected Then replace Localized option with #B2E for	power supply and with #B2E for switch . (Offered
	only in North America, Mexico Taiwan, and Japan)	
Note 8	If this Switch is selected, Then a Minimum of 1 factory integrate chassis. See Menu below, option must have a #0D1 to be integra	
Note 9	If the Switch Chassis is to be Box Level Factory Integrated (CTO),	
note y	and integrated to the J9849A - HP 82xx CTO Enablement. (Min 1	
Rack Level I	ntegration CTO Models	
	witch w/Premium Software - CTO	J9640A
	ver Supply required	
	092A - HP E8200 zl Management Module Included	
	093A - HP E8200 zl Fabric Module Included	
	095A - HP E8200 zl System Support Module Included	
• 6U - H	leight	

HP 8206-44G-PoE+-2XG v2 zl Swch w Pm SW - CTO

- 44 RJ-45 autosensing 10/100/1000 PoE+ ports
- 1 J9306A HP 1500 W PoE+ zl Power Supply Included
- 1 J9092A HP E8200 zl Management Module Included
- 2 J9093A HP E8200 zl Fabric Module Included

J9638A See Configuration Note:1, 9

- 1 J9095A HP E8200 zl System Support Module Included
- 1 J9534A HP 24-port Gig-T PoE+ v2 zl Module Included
- 1 J9536A HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers)
- 6U Height

 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 		
PDU CABLE ROW #B2C • C15 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord • NEMA L6-20P Cord (NA/MEX/JP/TW) HP 8212 zl Switch with Premium Software - CTO J9641A • 2 Power Supply required • 1 - J9092A - HP E8200 zl Management Module Included • 2 - J9093A - HP E8200 zl Fabric Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 9U - Height HP 8212-92G-POE+-2XG v2 zl Swch w Pm SW - CTO J9639A • 92 RJ-45 autosensing 10/100/1000 POE+ ports • 2 - J9306A - HP 1500 W POE+ zl Power Supply Included • 1 - J9095A - HP E8200 zl Management Module Included • 2 - J9306A - HP 1500 W POE+ zl Power Supply Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support Module Included • 1 - J9095A - HP E8200 zl System Support 10-GbE SFP+ vz zl Module Included (Min 0 // Max 2 SFP+ Transceivers) • 9U - Height PDU CABLE NA/MEX/TW/JP #B2B		#B2B
 C15 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) HP 8212 z1 Switch with Premium Software - CTO J9641A 2 Power Supply required 1 - J9092A - HP E8200 z1 Management Module Included 2 - J9093A - HP E8200 z1 Fabric Module Included 9 U - Height HP 8212-92G-P0E+-2XG v2 z1 Swch w Pm SW - CTO J9639A 9 22 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9093A - HP E8200 z1 System Support Module Included 2 - J9093A - HP E8200 z1 System Support Module Included 2 - J9093A - HP E8200 z1 System Support Module Included 3 - J953GA - HP E8200 z1 Fabric Module Included 3 - J953A - HP E8200 z1 System Support Module Included 3 - J953A - HP E8200 z1 System Support Module Included 3 - J953A - HP E8200 z1 System Support Module Included 3 - J953A - HP E8200 z1 System Support Module Included 3 - J953A - HP E8200 z1 System Support Module Included 3 - J953A - HP 24-port Gig-T PoE+ v2 z1 Module Included 3 - J953A - HP 24-port Gig-T PoE+ v2 z1 Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP K15 PDU Jumper Cord (NA/MEX/TW/JP) 		
High Volt Switch to Wall Power Cord#B2E• NEMA L6-20P Cord (NA/MEX/JP/TW)#B2EHP 8212 zl Switch with Premium Software - CTOJ9641A• 2 Power Supply required1 - J9092A - HP E8200 zl Management Module Included• 1 - J9092A - HP E8200 zl Fabric Module Included2 - J9093A - HP E8200 zl Fabric Module Included• 9 U - HeightHP 8212-92G-P0E+-2XG v2 zl Swctn w Pm SW - CTOJ9639A• 92 RJ-45 autosensing 10/100/1000 P0E+ portsSee Configurati• 2 - J9093A - HP E8200 zl Management Module IncludedSee Configurati• 1 - J9092A - HP E8200 zl Management Module IncludedNote:1, 9• 1 - J9092A - HP E8200 zl Management Module IncludedNote:1, 9• 1 - J9093A - HP E8200 zl System Support Module IncludedNote:1, 9• 1 - J9093A - HP E8200 zl System Support Module IncludedNote:1, 9• 1 - J9093A - HP E8200 zl System Support Module IncludedNote:1, 9• 1 - J9093A - HP E8200 zl System Support Module IncludedNote:1, 9• 1 - J9093A - HP E8200 zl System Support Module IncludedNote:1, 9• 1 - J9053A - HP E8200 zl System Support Module IncludedNote:1, 9• 1 - J9536A - HP 24-port Gig-T P0E+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers)#B2BPDU CABLE NA/MEX/TW/JP#B2B• C15 PDU Jumper Cord (NA/MEX/TW/JP)#B2B		#B2C
 NEMA L6-20P Cord (NA/MEX/JP/TW) HP 8212 zl Switch with Premium Software - CTO 2 Power Supply required 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 9U - Height HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO 92 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9093A - HP E8200 zl Fabric Module Included 2 - J9093A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl System Support Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 3 - J9534A - HP 28200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9095A - HP 20-port Gig-T PoE+ v2 zl Module Included 3 - J9534A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 	C15 PDU Jumper Cord (ROW)	
HP 8212 zl Switch with Premium Software - CTO J9641A 2 Power Supply required 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 9 U - Height 9U - Height HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO J9639A 9 2 RJ-45 autosensing 10/100/1000 PoE+ ports See Configurat 0 1 - J9092A - HP E8200 zl Fabric Module Included Note:1, 9 1 - J9092A - HP E8200 zl Fabric Module Included Note:1, 9 1 - J9092A - HP E8200 zl Fabric Module Included Note:1, 9 1 - J9092A - HP E8200 zl Fabric Module Included Note:1, 9 2 - J903A - HP E8200 zl Fabric Module Included Note:1, 9 3 - J9534A - HP E8200 zl System Support Module Included Note:1, 9 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included Note:1, 9 9 - 1 - J905A - HP E8200 zl System Support 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) #B28 9 - DU CABLE NA/MEX/TW/JP #B28	High Volt Switch to Wall Power Cord	#B2E
 2 Power Supply required 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 9U - Height HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO J9639A 92 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9093A - HP 1500 W PoE+ zl Power Supply Included 2 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 3 - J9536A - HP 20-port Gig-T PoE+ v2 zl Module Included 1 - J9055A - HP 20-port Gig-T PoE+ v2 zl Module Included 9U - Height PDU CABLE NA/MEX/TW/JP #B2B	NEMA L6-20P Cord (NA/MEX/JP/TW)	
 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 9U - Height HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO 92 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9096A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Management Module Included 3 - J9534A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9055A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP #B2B	HP 8212 zl Switch with Premium Software - CTO	J9641A
 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 9U - Height HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO J9639A 92 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 2 - J9093A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9095A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP #B2B	• 2 Power Supply required	
 1 - J9095A - HP E8200 zl System Support Module Included 9U - Height HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO 92 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 2 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP #B2B 	 1 - J9092A - HP E8200 zl Management Module Included 	
 9U - Height HP 8212-92G-POE+-2XG v2 zl Swch w Pm SW - CTO 92 RJ-45 autosensing 10/100/1000 POE+ ports 2 - J9306A - HP 1500 W POE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T POE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T POE+ v2 zl Module Included 9 - J9536A - HP 20-port Gig-T POE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9 U - Height PDU CABLE NA/MEX/TW/JP #B2B 		
HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO 92 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ v2 zl Module Included 9 U - Height PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) #B2B		
 92 RJ-45 autosensing 10/100/1000 PoE+ ports 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP (15 PDU Jumper Cord (NA/MEX/TW/JP) 	● 9U - Height	
 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 	HP 8212-92G-PoE+-2XG v2 zl Swch w Pm SW - CTO	J9639A
 1 - J9092A - HP E8200 zl Management Module Included 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 	 92 RJ-45 autosensing 10/100/1000 PoE+ ports 	See Configuration
 2 - J9093A - HP E8200 zl Fabric Module Included 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP #B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) 	• 2 - J9306A - HP 1500 W PoE+ zl Power Supply Included	Note:1, 9
 1 - J9095A - HP E8200 zl System Support Module Included 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP #B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) 		
 3 - J9534A - HP 24-port Gig-T PoE+ v2 zl Module Included 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 		
 1 - J9536A - HP 20-port Gig-T PoE+ / 2-port 10-GbE SFP+ v2 zl Module Included (Min 0 // Max 2 SFP+ Transceivers) 9U - Height PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 		
Transceivers) • 9U - Height PDU CABLE NA/MEX/TW/JP #B2B • C15 PDU Jumper Cord (NA/MEX/TW/JP)		
 9U - Height PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 		
PDU CABLE NA/MEX/TW/JP #B2B • C15 PDU Jumper Cord (NA/MEX/TW/JP)		
C15 PDU Jumper Cord (NA/MEX/TW/JP)	• 90 - Height	
		#B2B
	C15 PDU Jumper Cord (NA/MEX/TW/JP)	
FDU CADLE NUW #D2C	PDU CABLE ROW	#B2C
C15 to C14 Jumper Cord (ROW	C15 to C14 Jumper Cord (ROW	
High Volt Switch to Wall Power Cord #B2E	High Volt Switch to Wall Power Cord	#B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	-	



Configuration rul			
Note 1	The following Transceivers install into this Chassis : (Use #0D1 quoted to switch if if applicable	switch is CTO) -	
	HP X121 1G SFP LC SX Transceiver	J4858C	
	HP X121 1G SFP LC LX Transceiver	J4859C	
	HP X121 1G SFP LC LH Transceiver	J4860C	
	HP X121 1G SFP RJ45 T Transceiver	J8177C	
	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	
	HP X132 10G SFP+ LC LR Transceiver	J9151A	
	HP X132 10G SFP+ LC LRM Transceiver	J9152A	
	HP X132 10G SFP+ LC SR Transceiver	J9150A	
	HP X242 SFP+ SFP+ 1m Direct Attach Cable	J9281B	
	HP X242 SFP+ SFP+ 3m Direct Attach Cable	J9283B	
	HP X242 SFP+ SFP+ 7m Direct Attach Cable	J9285B	
	HP X244 XFP SFP+ 1m Direct Attach Cable	J9300A	
	HP X244 XFP SFP+ 3m Direct Attach Cable	J9301A	
	HP X244 XFP SFP+ 5m Direct Attach Cable	J9302A	
	HP X242 10G SFP+ 10m DAC Cable	J9286B	
	HP X242 10G SFP+ 15m DAC Cable	J9287B	
Note 2	Localization required (See Localization Menu)		
Note 9	Localization required on orders without #B2B or #B2C options.		
Internal Power Supplies	J9640x only - System (std 0 // max=2) User Selection (min 1 / max=2) per Chassis J9638x only - System (std 1 // max=2) User Selection (min 0 / max=1) per Chassis J9641x only - System (std 0 // max=4) User Selection (min 2 / max=4) per Chassis J9639x only - System (std 2 // max=4) User Selection (min 0 / max=2) per Chassis HP 1500 W PoE+ zl Power Supply • C15 Outlet		J9306A#0D1 See Configuration Note:1, 2, 6
	 PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 		J9306A#B2B
	 PDU CABLE ROW C15 PDU Jumper Cord (ROW) 		J9306A#B2C
	High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 		J9306A#B2E
	HP 875W zl Power Supply		J8712A#0D1



HP 8200 zl Switch Series

Configuration

• C15	Outlet	See Configuration Note:1, 2, 5, 6
	E NA/MEX/TW/JP PDU Jumper Cord (NA/MEX/TW/JP)	J8712A#B2B
PDU CABLE • C15	E ROW PDU Jumper Cord (ROW)	J8712A#B2C
-	Switch to Wall Power Cord 1A L6-20P Cord (NA/MEX/JP/TW)	J8712A#B2E
	/ zl Power Supply Outlet	J8713A#0D1 See Configuration Note:1, 2, 5, 6
C19 PDU W • C19	/W to C20 Jumper Cord	J8713A#B2D
2	Switch to Wall Power Cord 1A L6-20P Cord (NA/MEX/JP/TW) Power Supplies cannot be mixed for a switch enclosure	J8713A#B2E
Note 2	Localization required on orders without #B2B, #B2C, or #B2E options.	
Note 5	This power supply is not supported on the J9638x and J9639x switches.	
Note 6	If #B2E is selected Then replace Localized option with #B2E for power supply and with #B2E for switch . (Offered only in North America, Mexico Taiwan, and Japan)	
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)"	
Interface Modules	J9640x only - System (std 0 // max=6) User Selection (min 0 / max=6) per Chassis J9641x only - System (std 0 // max=12) User Selection (min 0 / max=12) per Chassis J9638x only - System (std 2 // max=6) User Selection (min 0 / max=4) per Chassis J9639x only - System (std 4 // max=12) User Selection (min 0 / max=8) per Chassis	



Modules

HP 8200 zl Switch Series

QuickSpecs

HP 20-port GT PoE+/4-port SFP v2 zl Mod • min=0 \ max=4 SFP Transceivers	J9535A#0D1 See Configuration Note:1
 HP 24-port SFP v2 zl Module min=0 \ max=24 SFP Transceivers 	J9537A#0D1 See Configuration Note:1
HP 12p Gig-T PoE+/12p SFP v2 zl Mod min=0 \ max=12 SFP Transceivers 	J9637A#0D1 See Configuration Note:1
HP 20-port Gig-T / 4-port SFP v2 zl Mod min=0 \ max=4 SFP Transceivers 	J9549A#0D1 See Configuration Note:1
 HP 4-port 10GbE SFP+ zl Module min=0 \ max=4 SFP+ Transceivers 	J9309A#0D1 See Configuration Note:2
HP 8-port 10 GbE SFP+ v2 zl Module • min=0 \ max=8 SFP+ Transceivers	J9538A#0D1 See Configuration Note:5
HP 20p GT PoE+ / 2p SFP+ v2 zl Module • min=0 \ max=2 SFP+ Transceivers	J9536A#0D1 See Configuration Note:5
HP 20-port Gig-T / 2-port SFP+ v2 zl Mod • min=0 \ max=2 SFP+ Transceivers	J9548A#0D1 See Configuration Note:5
HP 4-Port 10 GbE X2 zl Module • min=0 \ max=4 X2 Transceivers	J8707A#0D1 See Configuration Note:3
 HP 4-Port 10 GbE CX4 zl Module min=0 \ max=4 CX4 Media Converter 	J8708A#0D1



HP 8-port 10GBase-T v2 zl Module No Transceivers 	J9546A#0D1
 HP 24-Port 10/100/1000 PoE zl Module No Transceivers 	J8702A#0D1
HP 20p 10/100/1000 PoE+/4p MGBIC zl Mod • min=0 \ max=4 SFP Transceivers	J9308A#0D1 See Configuration Note:1
HP 20-Port Gig-T/4-Port Mini-GBIC zl Module • min=0 \ max=4 SFP Transceivers	J8705A#0D1 See Configuration Note:11
HP 24-Port Mini-GBIC zl Module • min=0 \ max=24 SFP Transceivers	J8706A#0D1 See Configuration Note:11
HP 24-Port 10/100/1000 PoE+ zl Module • No Transceivers	J9307A#0D1
HP 24-port Gig-T PoE+ v2 zl Module • No Transceivers	J9534A#0D1
HP 24-Port 10/100 PoE+ zl Module No Transceivers 	J9478A#0D1
HP 24-port 10/100 PoE+ v2 zl Module • No Transceivers	J9547A#0D1
HP 24-port Gig-T v2 zl Module No Transceivers 	J9550A#0D1
HP MSM765 zl Mobility Controller • No Transceivers	J9370A See Configuration Note:6, 7
HP MSM775 zl Premium Controller Module No Transceivers 	J9840A See Configuration Note:9



HP 8200 zl Switch Series

QuickSpecs

	ch Com zl Mod pwrby Msft Lync		J9485A
	ransceivers.		See
• Dou	ble Height Module, takes up 2 Vertical slots*		Configuration
			Note: 6, 7,
HP Svc zlM	od f/AvayaSBC pwrby AcmePacket		J9486A
• No T	ransceivers.		See
• Dou	ble Height Module, takes up 2 Vertical slots*		Configuration
			Note:6, 7,
HP Advance	ed Services v2 zl Module w/ HDD		J9857A
• No T	ransceivers		See
			Configurati
			Note:10
HP Advance	ed Services v2 zl Module w/ SSD		J9858A
• No T	ransceivers		See
			Configurati
			Note:10
HP Adv Srv	s zl Mod w/XenServer Platform		J9747A
• No T	ransceivers		See
			Configurati
			Note:6, 7
HP Adv Srv	s zl Mod w/vSphere Platform		J9748A
 No T 	ransceivers		See
			Configurati
			Note:6, 7
Note 1	The following Transceivers install into this Modu switch is CTO)	le: (Use #0D1 quote	
Note 1		le: (Use #0D1 quote J9054C	
Note 1	switch is CTO)		
Note 1	switch is CTO) HP X111 100M SFP LC FX Transceiver	J9054C	
Note 1	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver	J9054C J9099B	
Note 1	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver	J9054C J9099B J9100B	
Note 1	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver HP X121 1G SFP LC LH Transceiver	J9054C J9099B J9100B J4860C	
Note 1	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver HP X121 1G SFP LC LH Transceiver HP X121 1G SFP LC SX Transceiver	J9054C J9099B J9100B J4860C J4858C	
Note 1	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver HP X121 1G SFP LC LH Transceiver HP X121 1G SFP LC SX Transceiver HP X121 1G SFP LC LX Transceiver	J9054C J9099B J9100B J4860C J4858C J4859C	
Note 1	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver HP X121 1G SFP LC LH Transceiver HP X121 1G SFP LC SX Transceiver HP X121 1G SFP LC LX Transceiver HP X122 1G SFP LC BX-D Transceiver	J9054C J9099B J9100B J4860C J4858C J4859C J9142B	
Note 1 Note 2	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver HP X121 1G SFP LC LH Transceiver HP X121 1G SFP LC SX Transceiver HP X121 1G SFP LC LX Transceiver HP X122 1G SFP LC BX-D Transceiver HP X122 1G SFP LC BX-U Transceiver HP X122 1G SFP LC BX-U Transceiver HP X122 1G SFP RJ45 T Transceiver	J9054C J9099B J9100B J4860C J4858C J4859C J9142B J9143B J8177C	ed to switch if
	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver HP X121 1G SFP LC LH Transceiver HP X121 1G SFP LC SX Transceiver HP X121 1G SFP LC LX Transceiver HP X122 1G SFP LC BX-D Transceiver HP X122 1G SFP LC BX-U Transceiver HP X122 1G SFP LC BX-U Transceiver HP X121 1G SFP RJ45 T Transceiver The following Transceivers install into this Modu switch is CTO)	J9054C J9099B J9100B J4860C J4858C J4859C J9142B J9142B J9143B J8177C	ed to switch if
	 switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver HP X121 1G SFP LC LH Transceiver HP X121 1G SFP LC SX Transceiver HP X121 1G SFP LC LX Transceiver HP X122 1G SFP LC BX-D Transceiver HP X122 1G SFP LC BX-U Transceiver 	J9054C J9099B J9100B J4860C J4858C J4859C J9142B J9143B J9143B J8177C le: (Use #0D1 quote	ed to switch if
	switch is CTO) HP X111 100M SFP LC FX Transceiver HP X112 100M SFP LC BX-D Transceiver HP X112 100M SFP LC BX-U Transceiver HP X121 1G SFP LC LH Transceiver HP X121 1G SFP LC SX Transceiver HP X121 1G SFP LC LX Transceiver HP X122 1G SFP LC BX-D Transceiver HP X122 1G SFP LC BX-U Transceiver HP X122 1G SFP LC BX-U Transceiver HP X121 1G SFP RJ45 T Transceiver The following Transceivers install into this Modu switch is CTO)	J9054C J9099B J9100B J4860C J4858C J4859C J9142B J9142B J9143B J8177C	ed to switch if



Configuration		
	HP X132 10G SFP+ LC SR Transceiver	J9150A
	HP X242 SFP+ SFP+ 1m Direct Attach Cable	J9281B
	HP X242 SFP+ SFP+ 3m Direct Attach Cable	J9283B
	HP X242 SFP+ SFP+ 7m Direct Attach Cable	J9285B
	HP X244 XFP SFP+ 1m Direct Attach Cable	J9300A
	HP X244 XFP SFP+ 3m Direct Attach Cable	J9301A
	HP X244 XFP SFP+ 5m Direct Attach Cable	J9302A
	HP X242 10G SFP+ 10m DAC Cable	J9286B
	HP X242 10G SFP+ 15m DAC Cable	J9287B
Note 3	The following Transceivers install into this Module quoted to switch if switch is CTO)	:: (Use #0D1
	HP X131 10G X2 SC SR Transceiver	J8436A
	HP X131 10G X2 SC LR Transceiver	J8437A
	HP X131 10G X2 SC ER Transceiver	J8438A
	HP X131 10G X2 CX4 Transceiver	J8440C
	HP X131 10G X2 SC LRM Transceiver	J9144A
	The following Transceivers install into this Module	:: (Use #0D1
	quoted to switch if switch is CTO)	
	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 X121 1G SFP RJ45 T Transceiver	J8177C
	HP X132 10G SFP+ LC ER Transceiver	J9153A
	HP X132 10G SFP+ LC LR Transceiver	J9151A
	HP X132 10G SFP+ LC LRM Transceiver	J9152A
	HP X132 10G SFP+ LC SR Transceiver	J9150A
	HP X242 SFP+ SFP+ 1m Direct Attach Cable	J9281B
	HP X242 SFP+ SFP+ 3m Direct Attach Cable	J9283B
	HP X242 SFP+ SFP+ 7m Direct Attach Cable	J9285B
	HP X244 XFP SFP+ 1m Direct Attach Cable	J9300A
	HP X244 XFP SFP+ 3m Direct Attach Cable HP X244 XFP SFP+ 5m Direct Attach Cable	J9301A
	HP X244 AFP SFP+ 311 Direct Attach Cable	J9302A J9286A
	HP X242 10G SFP+ 15m DAC Cable	J9287A
Note 6	If this module is selected, Then:	
	J9641A, J9639A Max = 4 Modules of any combi the following modules: J9517A, J9485A, J9486A, J J9666A, J9747A, J9748A. Double Height Modules o	9289A, J9483A,
	slots. J9640A, J9638A Max = 2 Slots for Modules of a pairing of the following modules: J9517A, J9485A, J9483A, J9666A, J9747A, J9748A. Double Height N	J9486A, J9289A,



Configuration vertical slots. Note 7 If this module is selected, Then show following message - For all OA modules, it is preferred that they be populated on the left side of the Chassis as it gets better airflow. This module occupies 2 Vertical Slots. Note 8 Note 9 Maximum of this Module per Chassis: J9638x min=0\max= 4 per Chassis J9640x min=0\max=5 per Chassis J9639x, J9641x min=0\max=6 per Chassis There are no restrictions on which slots these modules may go in. Note 10 Maximum of this Module per Chassis: J9638x, J9640x min=0\max=3 per Chassis J9639x, J9641x min=0\max=6 per Chassis There are no restrictions on which slots these modules may go in. Management System (std 1 // max 2) User Selection (min 0 / max 1) Modules HP 8200 zl Management Module J9092A Fabric Modules System (std 2 // max 2) User Selection (min 0 / max 0) HP 8200 zl Fabric Module J9093A Order for Spares only. System System (std 1 // max 1) User Selection (min 0 / max 1) Support HP 8200 zl System Support Module J9095A Modules Order for Spares only. Transceivers SFP HP X111 100M SFP LC FX Transceiver J9054C Transceivers HP X112 100M SFP LC BX-D Transceiver J9099B HP X112 100M SFP LC BX-U Transceiver J9100B HP X121 1G SFP LC LH Transceiver J4860C HP X121 1G SFP LC LX Transceiver J4859C HP X121 1G SFP LC SX Transceiver J4858C HP X122 1G SFP LC BX-D Transceiver J9142B HP X122 1G SFP LC BX-U Transceiver J9143B HP X121 1G SFP RJ45 T Transceiver J8177C SFP+ HP X132 10G SFP+ LC ER Transceiver J9153A Transceivers HP X132 10G SFP+ LC LR Transceiver J9151A HP X132 10G SFP+ LC LRM Transceiver J9152A HP X132 10G SFP+ LC SR Transceiver J9150A HP X242 10G SFP+ SFP+ 1m DAC Cable J9281B



Configurat	tion		
		HP X242 10G SFP+ SFP+ 3m DAC Cable	J9283B
		HP X242 10G SFP+ SFP+ 7m DAC Cable	J9285B
		HP X242 10G SFP+ 10m DAC Cable	J9286B
		HP X242 10G SFP+ 15m DAC Cable	J9287B
		HP X244 10G XFP SFP+ 1m DAC Cable	J9300A
		HP X244 10G XFP SFP+ 3m DAC Cable	J9301A
		HP X244 10G XFP SFP+ 5m DAC Cable	J9302A
	X2 Transceiver	s HP X131 10G X2 SC ER Transceiver	J8438A
		HP X131 10G X2 SC LR Transceiver	J8437A
		HP X131 10G X2 SC LRM Transceiver	J9144A
		HP X131 10G X2 SC SR Transceiver	J8436A
Cables	Multi-Mode	HP .5m Multi-mode OM3 LC/LC FC Cable	AJ833A
	Cables	HP 1m Multi-mode OM3 LC/LC FC Cable	AJ834A
		HP 2 m Multimode OM3 LC/LC FC Cable	AJ835A
		HP 5 m Multimode OM3 LC/LC FC Cable	AJ836A
		HP 15 m Multimode OM3 LC/LC FC Cable	AJ837A
		HP 30 m Multimode OM3 LC/LC FC Cable	AJ838A
		HP 50 m Multimode OM3 LC/LC FC Cable	AJ839A
		HP Premier Flex LC/LC OM4 2f 1m Cbl	QK732A
		HP Premier Flex LC/LC OM4 2f 2m Cbl	QK733A
		HP Premier Flex LC/LC OM4 2f 5m Cbl	QK734A
		HP Premier Flex LC/LC OM4 2f 15m Cbl	QK735A
		HP Premier Flex LC/LC OM4 2f 30m Cbl	QK736A
		HP Premier Flex LC/LC OM4 2f 50m Cbl	QK737A
Switch Enclosure	License	HP 8200 zl Switch Premium License	J9474A
Options	Fan Trays	HP 8212 zl Fan Tray	J9094A
		HP 8206 zl Switch Fan Tray	J9476A
	Survivable	Sangoma 2-port T1/E1/J1 Telephony Card	J9488A
	Branch	Sangoma 4-port T1/E1/J1 Telephony Card	J9489A
		n Sangoma 4-port FXO Telephony Card	J9516A
	Upgrades	Sangoma 4-port FXS Telephony Card	J9482A
		Sangoma 2-port FXO / 2-port FXS Telephony Card	J9518A
		Sangoma 1-port T1/E1/J1 Telephony Card	J9487A
	US Federal	HP zl Chassis FIPS 10K Rack Mounting Kit	J9708A
	Government		See
	certifications		Configuration
			Note:1

HP 16mm x 32mm Tmpr-Evidence (20) Labels

J9740A



Configuration

HP 8200 zl Switch Series

	See Configuration Note:1
HP 16mm x 32mm Tmpr-Evidence (120) Label	J9709A See Configuration Note:1
HP 8206 zl FIPS Opacity Shield Kit	J9712A See Configuration Note:1
HP 8212 zl FIPS Opacity Shield Kit	J9713A See Configuration Note:1
HP 8206 zl High Performance Fan Tray	J9723A See Configuration Note:1
HP 8212 zl High Performance Fan Tray	J9724A See Configuration Note:1
Note 1 Do not display in Watson.	



Technical Specifications

HP 8206 zl Switch with	Included accessories	1 HP 8200 zl Management	Module (J9092A)	
Premium Software (J9640A)		2 HP 8200 zl Fabric Module (J9093A)		
		1 HP 8200 zl System Supp	ort Module (J9095A)	
	I/O ports and slots	s 6 open module slots		
		Supports a maximum of 14 ports or 144 mini-GBICs, o	44 autosensing 10/100/1000 ports or 48 10-GbE r a combination	
	Power supplies	2 power supply slots		
		1 minimum power supply r	required (ordered separately)	
	Physical characteristics	Dimensions	17.42(w) x 17.49(d) x 10.35(h) in (44.25 x 44.42 x 26.29 cm) (6U height)	
		Weight	48.1 lb (21.82 kg)	
	Memory and processor	Gigabit Module	ARM9 @ 200 MHz; packet buffer size: 144 Mb QDR SDRAM	
		10G Module	ARM9 @ 200 MHz; packet buffer size: 36 Mb QDR SDRAM	
		Management Module	Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 128 MB compact flash, 256 MB DDR SDRAM	
Mounting		Mounts in an EIA-standard 19 in telco rack/equipment cabinet (hardware included); horizontal surface mounting only. An optional 4-post cabinet rail is available (see ordering guide).		
	Performance	1000 Mb Latency	< 3.7 µs (FIFO 64-byte packets)	
		10 Gbps Latency	< 2.1 µs (FIFO 64-byte packets)	
		Throughput	up to 369.6 million pps	
		Routing/Switching capacity	496.8 Gbps	
		Switch fabric speed	561.6 Gbps	
		Routing table size	10000 entries (IPv4)	
		MAC address table size	64000 entries	
	Environment	Operating temperature	32°F to 113°F (0°C to 45°C)	
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing	
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
		Nonoperating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing	
		Altitude	up to 10,000 ft (3 km)	
		Acoustic	Power: 60.0 dB, Pressure: 41.3 dB; ISO 7779, ISO 9296	
	Electrical characteristics	Achieved Miercom Certified	d Green Award	
		Frequency	50/60 Hz	



HP 8200 zl Switch Series

Technical Specifications		
	Description	Chassis ships without power supplies. Two power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. PoE)
	Voltage	100-127/200-240 VAC
Safety	CSA 22.2 No. 60950; U	IL 60950; IEC 60950; EN 60950; IEC 60825
Emissions	FCC Class A; FCC part 1 VCCI Class A; EN 55022	5 Class A; ICE-003, Canadian Radio Interface Regulation; 2/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management		luded); command-line interface; Web browser; ut-of-band management (serial RS-232C)
Notes	module must be order RS-232C console port Supported 1G SFP trar	lules, power supplies, and redundant management red separately. via an RJ-45 connector. nsceivers are revision "B" or later (product number ends ater; for example, J9142B, J8177C).
Services	 3-year, 4-hour onsite, 13x5 coverage for hardware (UW442E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW443E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW444E) 3-year, 24x7 SW phone support, software updates (UW445E) Installation with minimum configuration, system-based pricing (U4828E) Installation with HP-provided configuration, system-based pricing (U4832 4-year, 4-hour onsite, 13x5 coverage for hardware (UW462E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW463E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW464E) 4-year, 24x7 SW phone support, software updates (UW465E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UY921E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UY922E) 	



Technical Specificati	ions		
		 5-year, 24x7 SW phone support, software updates (UY924E) 3 Yr 6 hr Call-to-Repair Onsite (UW446E) 4 Yr 6 hr Call-to-Repair Onsite (UW466E) 5 Yr 6 hr Call-to-Repair Onsite (UY925E) 1-year, 4-hour onsite, 13x5 coverage for hardware (HR609E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR613E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR613E) 1-year, 24x7 software phone support, software updates (HR612E) 1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR611E) 1-year, 24x7 software phone support, software updates + Next Business E Hardware Exchange (HS762E) 1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS763E) 3-year, 24x7 software phone support, software updates + Next Business E Hardware Exchange (HS764E) 3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS765E) 4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS765E) 4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS765E) 4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS767E) 5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS767E) 5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS767E) 5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS767E) 5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS767E) 5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS767E) 5-year, 24x7 software phone support, software updates + 0 hour Hardware Exchange (HS769E) 8-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS769E) 	
HP 8212 zl Switch with Premium Software (J9641A)	Included accessories	1 HP 8200 zl Managem 2 HP 8200 zl Fabric Mo 1 HP 8200 zl System Si	
		-	emium License (J9474A)
	I/O ports and slots	12 open module slots	
	17 0 por 15 and 5tot5	-	of 288 autosensing 10/100/1000 ports or 96 10-GbE s, or a combination
	Power supplies	4 power supply slots	
		2 minimum power supp	plies required (ordered separately)
	Physical characteristics	Dimensions	17.5(w) x 18.7(d) x 15.6(h) in (44.45 x 47.5 x 39.62 cm) (9U height)
		Weight	50.44 lb (22.88 kg)
	Memory and processor	Gigabit Module	ARM9 @ 200 MHz; packet buffer size: 144 Mb QDR SDRAM
		10G Module	ARM9 @ 200 MHz; packet buffer size: 36 Mb QDR SDRAM



Technical Specifications

HP 8200 zl Switch Series

	Management Module	Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 128 MB compact flash, 256 MB DDR SDRAM
Mounting		19 in telco rack or equipment cabinet (hardware ce mounting only. An optional 4-post cabinet rail is de).
Performance	1000 Mb Latency	< 3.7 µs (FIFO 64-byte packets)
	10 Gbps Latency	< 2.1 µs (FIFO 64-byte packets)
	Throughput	up to 739 million pps
	Routing/Switching capacity	993.6 Gbps
	Switch fabric speed	1.1 Tbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 63.0 dB, Pressure: 47.8 dB; ISO 7779, ISO 9296
Electrical characteristics	Achieved Miercom Certified	l Green Award
	Frequency	50/60 Hz
	Description	Chassis ships without power supplies. Four power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	4900 BTU/hr (5170 kJ/hr), (max. non-PoE); 7400 BTU/hr (7807 kJ/hr) (max. PoE)
	Voltage	100-127/200-240 VAC
Safety	CSA 22.2 No. 60950; UL 609	950; IEC 60950; EN 60950; IEC 60825
Emissions	FCC Class A; FCC part 15 Cla VCCI Class A; EN 55022/CIS	ass A; ICE-003, Canadian Radio Interface Regulation; PR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC



Technical Specifications

2112		
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	•	uded); command-line interface; Web browser; ut-of-band management (serial RS-232C)
Notes	module must be order RS-232C console port Supported 1G SFP tran	ules, power supplies, and redundant management ed separately. via an RJ-45 connector. Isceivers are revision "B" or later (product number ends ater; for example, J9142B, J8177C).
Services	 3-year, 4-hour onsite, 3-year, 4-hour onsite, 3-year, 4-hour onsite, and SW updates (UW4 3-year, 24x7 SW phone Installation with minim Installation with HP-pr 4-year, 4-hour onsite, 4-year, 4-hour onsite, 4-year, 4-hour onsite, (UW469E) 4-year, 4-hour onsite, 5-year, 24x7 SW phone 5-year, 4-hour onsite, 5-year, 24x7 SW phone 1-year, 4-hour onsite, 1-year, 4-hour onsite, 1-year, 4-hour onsite, 1-year, 6 hour Call-to-Repair 1-year, 24x7 software 4ardware Exchange (H 3-year, 24x7 software 4ardware Exchange (H 3-year, 24x7 software 	13x5 coverage for hardware (UW447E) 24x7 coverage for hardware (UW448E) 24x7 coverage for hardware, 24x7 SW phone support 49E) e support, software updates (UW450E) num configuration, system-based pricing (U4828E) rovided configuration, system-based pricing (U4832E) 13x5 coverage for hardware (UW467E) 24x7 coverage for hardware (UW468E) 24x7 coverage for hardware, 24x7 software phone e support, software updates (UW471E) 13x5 coverage for hardware (UY926E) 24x7 coverage for hardware (UY927E) 24x7 coverage for hardware, 24x7 software phone e support, software updates (UY927E) 24x7 coverage for hardware, 24x7 software phone e support, software updates (UY929E) r Onsite (UY937E) r Onsite (UY930E) 13x5 coverage for hardware (HR614E) 24x7 coverage for hardware (HR615E) -Repair Onsite for hardware (HR618E) phone support, software updates (HR617E) 24x7 coverage for hardware (HR618E) phone support, software updates + Next Business Day US754E) phone support, software updates + Abour hardware phone support, software updates + Next Business Day
	Exchange (HS757E)	phone support, software updates + Next Business Day



Technical Specificatio	ns			
		Exchange (HS759E) 5-year, 24x7 software ph Hardware Exchange (HS7	one support, software updates + 4 hour Hardware one support, software updates + Next Business Day	
		the service-level descript	t: www.hp.com/networking/services for details on ions and product numbers. For details about services ur area, please contact your local HP sales office.	
HP 8206-44G-PoE+-2XG	Included accessories	1 HP 8200 zl Managemen	t Module (J9092A)	
v2 zl Switch with Premium		2 HP 8200 zl Fabric Modu	le (J9093A)	
Software (J9638A)		1 HP 8200 zl System Supp	oort Module (J9095A)	
		1 HP 1500W PoE+ zl Powe	er Supply (J9306A)	
		1 HP 24-port Gig-T PoE+	v2 zl Module (J9534A)	
		1 HP 20-port Gig-T PoE+	/ 2-port 10GbE SFP+ v2 zl Module (J9536A)	
		1 HP 8200 zl Switch Premium License (J9474A)		
	I/O ports and slots	44 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3a PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only		
		2 SFP+ 10-GbE ports; Dup	olex: full only	
		4 open module slots		
		Supports a maximum of 1 ports or 144 mini-GBICs, o	44 autosensing 10/100/1000 ports or 48 10-GbE or a combination	
	Power supplies	2 power supply slots		
		1 minimum power supply includes: 1 x J9306A (HP ⁻	required 1500W PoE+ zl Power Supply)	
	Physical characteristics	Dimensions	17.42(w) x 17.49(d) x 10.35(h) in (44.25 x 44.42 x 26.29 cm) (6U height)	
		Weight	61.49 lb (27.89 kg)	
	Memory and processor	Gigabit Module	ARM9 @ 200 MHz; packet buffer size: 144 Mb QDR SDRAM	
		10G Module	ARM9 @ 200 MHz; packet buffer size: 36 Mb QDR SDRAM	
		Management Module	Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 128 MB compact flash, 256 MB DDR SDRAM	
	Mounting		d 19 in telco rack/equipment cabinet (hardware ace mounting only. An optional 4-post cabinet rail is iide).	
	Performance	1000 Mb Latency	< 3.7 µs (FIFO 64-byte packets)	
		10 Gbps Latency	< 2.1 µs (FIFO 64-byte packets)	

HP 8200 zl Switch Series

Technical Specifications

	Throughput	up to 369.6 million pps
	Routing/Switching capacity	496.8 Gbps
	Switch fabric speed	561.6 Gbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 60.0 dB, Pressure: 41.3 dB; ISO 7779, ISO 9296
Electrical characteristics	Achieved Miercom Certified	l Green Award
	Frequency	50/60 Hz
	Description	Chassis ships without power supplies. Two power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. PoE)
	Voltage	100-127/200-240 VAC
Safety	CSA 22.2 No. 60950; UL 60	950; IEC 60950; EN 60950; IEC 60825
Emissions	FCC Class A; FCC part 15 Cla VCCI Class A; EN 55022/CIS	ass A; ICE-003, Canadian Radio Interface Regulation; PR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3



Technical Specificati	ons	
	Management	HP PCM+; HP PCM (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
	Notes	Interface/Service modules, power supplies, and redundant management module must be ordered separately. RS-232C console port via an RJ-45 connector. 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 (UW442E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW443E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW444E) 3-year, 24x7 SW phone support, software updates (UW445E) Installation with HP-provided configuration, system-based pricing (U4828E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UW462E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW462E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW465E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UY921E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UY922E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UY924E) 3 Yr 6 hr Call-to-Repair Onsite (UW446E) 4 Yr 6 hr Call-to-Repair Onsite (UW446E) 4 Yr 6 hr Call-to-Repair Onsite (UY925E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR609E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR612E) 1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS762E) 3-year, 24x7 software phone support, software
		Exchange (HS769E)



Technical Specifications

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.

HP 8212-92G-PoE+-2XG	Included accessories	1 HP 8200 zl Managemen	t Module (J9092A)		
v2 zl Switch with Premium		2 HP 8200 zl Fabric Module (J9093A)			
Software (J9639A)		1 HP 8200 zl System Supp	port Module (J9095A)		
		ium License (J9474A)			
		2 HP 1500W PoE+ zl Power Supply (J9306A)			
		3 HP 24-port Gig-T PoE+ v2 zl Module (J9534A)			
		1 HP 20-port Gig-T PoE+ / 2-port 10GbE SFP+ v2 zl Module (J9536A)			
	I/O ports and slots	92 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3a PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only			
		2 SFP+ 10-GbE ports; Duplex: full only			
		8 open module slots			
		Supports a maximum of 288 autosensing 10/100/1000 ports or 96 10-Gb ports or 288 mini-GBICs, or a combination			
	Power supplies	4 power supply slots			
		2 minimum power supplies required includes: 2 x J9306A (HP 1500W PoE+ zl Power Supply)			
	Physical characteristics	Dimensions	17.5(w) x 18.7(d) x 15.6(h) in (44.45 x 47.5 x 39.62 cm) (9U height)		
		Weight	102.76 lb (46.61 kg)		
	Memory and processor	Gigabit Module	ARM9 @ 200 MHz; packet buffer size: 144 Mb QDI SDRAM		
		10G Module	ARM9 @ 200 MHz; packet buffer size: 36 Mb QDR SDRAM		
		Management Module	Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 128 MB compact flash, 256 MB DDR SDRAM		
	Mounting	Mounts in an EIA-standard 19 in telco rack or equipment cabinet (hardware included); horizontal surface mounting only. An optional 4-post cabinet rai available (see ordering guide).			
	Performance	1000 Mb Latency	< 3.7 µs (FIFO 64-byte packets)		
		10 Gbps Latency	< 2.1 µs (FIFO 64-byte packets)		
		Throughput	up to 739 million pps		
		Routing/Switching capacity	993.6 Gbps		
		Switch fabric speed	1.1 Tbps		
		Routing table size	10000 entries (IPv4)		



HP 8200 zl Switch Series

Technical Specificati	ons		
	Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
		Altitude	up to 10,000 ft (3 km)
		Acoustic	Power: 63.0 dB, Pressure: 47.8 dB; ISO 7779, ISO 9296
	Electrical characteristics	Achieved Miercom Certifie	d Green Award
		Frequency	50/60 Hz
		Description	Chassis ships without power supplies. Four power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
		Maximum heat dissipation	4900 BTU/hr (5170 kJ/hr), (max. non-PoE); 7400 BTU/hr (7807 kJ/hr) (max. PoE)
		Voltage	100-127/200-240 VAC
	Safety	CSA 22.2 No. 60950; UL 60	950; IEC 60950; EN 60950; IEC 60825
	Emissions	FCC Class A; FCC part 15 Cl VCCI Class A; EN 55022/Cl	ass A; ICE-003, Canadian Radio Interface Regulation SPR 22 Class A
	Immunity	EN	EN 55024, CISPR 24
		ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD
		Radiated	IEC 61000-4-3; 3 V/m
		EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
		Surge	IEC 61000-4-5; 1 kV/2 kV AC
		Conducted	IEC 61000-4-6; 3 V
		Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
		Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
		Harmonics	EN 61000-3-2, IEC 61000-3-2
		Flicker	EN 61000-3-3, IEC 61000-3-3
	Management		d); command-line interface; Web browser; if-band management (serial RS-232C)
	Notes	Interface/Service modules, power supplies, and redundant management module must be ordered separately. RS-232C console port via an RJ-45 connector. Supported 1G SFP transceivers are revision "B" or later (product number end with the letter "B" or later; for example, J9142B, J8177C).	
	Services	3-vear A-bour onsite 13v	5 coverage for hardware (UW447E)



Technical Specifications

3-year, 4-hour onsite, 24x7 coverage for hardware (UW448E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW449E) 3-year, 24x7 SW phone support, software updates (UW450E) Installation with minimum configuration, system-based pricing (U4828E) Installation with HP-provided configuration, system-based pricing (U4832E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UW467E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW468E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW469E) 4-year, 24x7 SW phone support, software updates (UW471E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UY926E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UY927E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY928E) 5-year, 24x7 SW phone support, software updates (UY929E) 3 Yr 6 hr Call-to-Repair Onsite (UY937E) 4 Yr 6 hr Call-to-Repair Onsite (UW472E) 5 Yr 6 hr Call-to-Repair Onsite (UY930E) 1-year, 4-hour onsite, 13x5 coverage for hardware (HR614E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR615E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR618E) 1-year, 24x7 software phone support, software updates (HR617E) 1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR616E) 1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS754E) 1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS755E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS756E) 3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS757E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS758E) 4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS759E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS760E) 5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS761E) 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. **Standards and protocols** BGP **RFC 1997 BGP Communities Attribute RFC 2918 Route Refresh Capability** (applies to all products in RFC 4271 A Border Gateway Protocol 4 (BGP-4) RFC 4456 BGP Route Reflection: An Alternative to

Full

Mesh Internal BGP (IBGP)



series)

Technical Specifications

	RFC 4724 Graceful Restart Mechanism for BGP RFC 5492 Capabilities Advertisement with BGP-4
Denial of service protection	CPU DoS Protection
Device management	RFC 1591 DNS (client) HTML and telnet management
General protocols	802.1ad Q-in-Q IEEE 802.1AX-2008 Link Aggregation IEEE 802.1D MAC Bridges IEEE 802.1D Priority IEEE 802.10 VLANS IEEE 802.1 VLAN classification by Protocol and Port IEEE 802.1 w Rapid Reconfiguration of Spanning Tree IEEE 802.3 ad Link Aggregation Control Protocol (LACP) IEEE 802.3 af Power over Ethernet IEEE 802.3 af Power over Ethernet IEEE 802.3 x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 868 Time Protocol RFC 951 B00TP RFC 1058 RIPv1 RFC 1058 RIPv1 RFC 1542 B00TP Extensions RFC 1542 B00TP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP RFC 2548 (MS-RAS-Vendor only) RFC 3046 DHCP Relay Agent Information Option RFC 3768 VRP RFC 3768 VRP RFC 3768 VRP RFC 4675 RADIUS VLAN & Priority
IP multicast	UDLD (Uni-directional Link Detection) RFC 3376 IGMPv3 (host joins only) RFC 3973 PIM Dense Mode RFC 4601 PIM Sparse Mode
IPv6	RFC 1981 IPv6 Path MTU Discovery RFC 2375 IPv6 Multicast Address Assignments RFC 2460 IPv6 Specification RFC 2464 Transmission of IPv6 over Ethernet Networks



Technical Specifications

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 Multicast Listener Discovery Version 2 (MLDv2) for IPv6 RFC 4022 MIB for TCP RFC 4087 IP Tunnel MIB RFC 4113 MIB for UDP RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers 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 Autoconfiguration RFC 5095 Deprecation of Type 0 Routing Headers in IPv6 RFC 5340 OSPFv3 for IPv6 RFC 5453 Reserved IPv6 Interface Identifiers RFC 5519 Multicast Group Membership Discovery MIB (MLDv2 only) RFC 5722 Handling of Overlapping IPv6 Fragments IEEE 802.1ap (MSTP and STP MIB's only) 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**



MIBs

Technical Specifications

	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 RFC 2933 IGMP 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 3623 Graceful OSPF Restart (Unplanned Outages only) 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 RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP) Secure Sockets Layer (SSL) SSHv2 Secure Shell



Accessories

HP 8200 zl Switch Series	Modules	
accessories	HP 8-port 10GBase-T v2 zl Module	J9546A
	HP 8-port 10 GbE SFP+ v2 zl Module	J9538A
	HP 4-Port 10 GbE CX4 zl Module	J8708A
	HP 4-Port 10 GbE X2 zl Module	J8707A
	HP 4-Port 10 GbE SFP+ zl Module	J9309A
	HP 20-port Gig-T PoE+/2-port 10-GbE SFP+ v2 zl Module	J9536A
	HP 20-port Gig-T/2-port 10-GbE SFP+ v2 zl Module	J9548A
	HP 20-port Gig-T PoE+/4-port SFP v2 zl Module	J9535A
	HP 20-port Gig-T/4-port SFP v2 zl Module	J9549A
	HP 24-port SFP v2 zl Module	J9537A
	HP 12-port Gig-T PoE+/12-port SFP v2 zl Module	J9637A
	HP 24-port Gig-T PoE+ v2 zl Module	J9534A
	HP 24-port Gig-T v2 zl Module	J9550A
	HP 24-Port 10/100/1000 PoE zl Module	J8702A
	HP 20-Port Gig-T/4-Port Mini-GBIC zl Module	J8705A
	HP 24-Port Mini-GBIC zl Module	J8706A
	HP 24-port 10/100 PoE+ v2 zl Module	J9547A
	HP 24-Port 10/100 PoE+ zl Module	J9478A
	HP 24-Port 10/100/1000 PoE+ zl Module	J9307A
	HP 20-Port 10/100/1000 PoE+/4-Port Mini-GBIC zl Module	J9308A
	HP 8200 zl System Support Module	J9095A
	HP 8200 zl Management Module	J9092A
	HP 8200 zl Fabric Module	J9093A
	HP Extended Services zl Module with Riverbed Steelhead RiOS™ Application	J9517A
	HP Survivable Branch Communication zl Module powered by Microsoft Lync	J9485A
	HP Services zl Module for Avaya Aura Session Border Controller powered by Acme Packet	J9486A
	NEW HP Advanced Services v2 zl Module with HDD	J9857A
	HP Advanced Services v2 zl Module with SSD	J9858A
	Transceivers	
	HP X131 10G X2 SC ER Transceiver	J8438A
	HP X131 10G X2 SC SR Transceiver	J8436A
	HP X131 10G X2 CX4 Transceiver	J8440C
	HP X111 100M SFP LC FX Transceiver	J9054C
	HP X131 10G X2 SC LR Transceiver	J8437A
	HP X131 10G X2 SC LRM Transceiver	J9144A
	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



Accessories

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 X121 1G SFP RJ45 T Transceiver	J8177C
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
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
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 1500 W PoE+ zl Power Supply	J9306A
HP 1500 W zl Power Supply	J8713A
HP 875 W zl Power Supply	J8712A
License	
HP 8200 zl Switch Premium License	J9474A
WLAN	
NEW HP MSM775 zl Premium Controller Module	J9840A
HP MSM765 zl Premium Mobility Controller	J9370A

HP 8200 zl Switch Series

QuickSpecs

Accessories

HP 8206 zl Switch with Premium Software (J9640A)	
HP 20-port Gig-T/4-port SFP v2 zl Module	J9549A
HP 8206 zl Switch Fan Tray	J9476A
HP 8212 zl Switch with Premium Software (J9641A)	
HP 8212 zl Switch Fan Tray	J9094A
HP 8206-44G-PoE+/2XG-SFP+ v2 zl Switch with Premium Software (J9638A)	
HP 20-port Gig-T/4-port SFP v2 zl Module	J9549A
HP 8206 zl Switch Fan Tray	J9476A
HP 8212-92G-PoE+/2XG-SFP+ v2 zl Switch with Premium Software (J9639A)	
HP 8212 zl Switch Fan Tray	J9094A



Accessory Product Details

HP 8-port 10GBase-T v2 zl	Ports	8 RJ-45 10-GbE ports; Duplex: full only	
Module (J9546A)	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.1 lb. (0.95 kg)
		Full configuration weight	2.1 lb. (0.95 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing
		Fiber type	Single Mode
	Notes	Max Distance upto 100m with qualified 10Gbase-T Cat7(Shielded), (Shielded/Unshielded) and Cat6 (Shielded, tested to 350Mhz TIA/El 155A) cables. Max Distance upto 55m with Cat6 (unshielded, tested TIA/EIA TSB-155A)	
	Services	the service-level descriptio	www.hp.com/networking/services for details on ons and product numbers. For details about services r area, please contact your local HP sales office.
HP 8-port 10 GbE SFP+ v2	Ports	8 open 10-GbE SFP+ transc	ceiver slots
zl Module (J9538A)	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.09 lb (0.95 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing
	Notes	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. When mini-GBICs are inserted in any mini-GBIC slot of a J9538A, this limits the operating temperature range of the chassis to 32F to 104F (OC to 40C).	
	Services	the service-level descriptio	www.hp.com/networking/services for details on ons and product numbers. For details about services r area, please contact your local HP sales office.



Accessory Product Details

HP 4-Port 10 GbE CX4 zl	Ports	4 CX4 10-GbE ports (IEEE 8	802.3ak Type 10GBASE-CX4); Duplex: full only	
Module (J8708A)	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)	
		Weight	1.74 lb. (0.79 kg)	
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)	
	Cabling	Maximum distance: • 15 m using CX4 cable • 300 m using optical med	ia converters and multimode fiber cable	
	Notes	Use CX4 10-GbE cable (0.5 m-15 m) or HP ProCurve 10-GbE CX4 Media Converter (J8439A). No CX4 cables are included with this module. 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.		
	Services			
HP 4-Port 10 GbE X2 zl	Ports	4 open 10-GbE X2 transce	4 open 10-GbE X2 transceiver slots	
Module (J8707A)	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)	
		Weight	1.74 lb. (0.79 kg)	
	Environment	Operating temperature	32°F to 104°F (0°C to 40°C)	
	Notes	When installed in a zl chassis, the J8707A module limits the operating temperature range of the chassis to 32°F to 104°F (0°C to 40°C).		
	Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about service and response times in your area, please contact your local HP sales office.		
HP 4-Port 10 GbE SFP+ zl	Ports	4 open 10-GbE SFP+ trans	ceiver slots	
Module (J9309A)	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)	
		Weight	1.64 lb. (0.74 kg)	
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)	
		Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing	
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing	
	Notes	When installed in a zl chassis, the J9309A module limits the operating temperature range of the chassis to 32F to 113F (OC to 45C).		



Accessory Product De	etails		
	Services	the service-level descripti	www.hp.com/networking/services for details on ons and product numbers. For details about services area, please contact your local HP sales office.
HP 20-port Gig-T PoE+/2- port 10-GbE SFP+ v2 zl Module (J9536A)	Ports	2 open 10-GbE SFP+ transceiver slots 20 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.1 lb. (0.95 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing
	Cabling		5E or better recommended), 100 0 differential 4- air (UTP) or shielded twisted pair (STP) balanced, Bab 1000BASE-T;
	Notes	When using mini-GBICs with this product, mini-GBICs with revision "B" or la (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. When mini-GBICs are inserted in any mini-GBIC slot of a J9308A, this limits	
	Services	operating temperature range of the chassis to 32F to 104F (OC to 40C). Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about service and response times in your area, please contact your local HP sales office.	



Accessory Product Details

HP 20-port Gig-T/2-port 10-GbE SFP+ v2 zl Module (J9548A)	Ports	2 open 10-GbE SFP+ transceiver slots 20 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	
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.1 lb. (0.95 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 0 differential 4- pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T; 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. When mini-GBICs are inserted in any mini-GBIC slot of a J9308A, this limits the operating temperature range of the chassis to 32F to 104F (OC to 40C). 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.	
	Notes		
	Services		
HP 20-port Gig-T PoE+/4- port SFP v2 zl Module (J9535A)	Ports	4 open mini-GBIC (SFP) slots 20 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 5 Dimensions 10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)	
	Physical characteristics		
		Weight	2.1 lb. (0.95 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing



Accessory Product De	tails		
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 0 differential 4- pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T; When using mini-GBICs with this product, mini-GBICs with revision "B" or late (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. When mini-GBICs are inserted in any mini-GBIC slot of a J9308A, this limits th operating temperature range of the chassis to 32F to 104F (OC to 40C). Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about service and response times in your area, please contact your local HP sales office.	
	Notes		
	Services		
HP 20-port Gig-T/4-port SFP v2 zl Module (J9549A)	Ports	4 open mini-GBIC (SFP) slots 20 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	
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.1 lb. (0.95 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 0 differential 4- pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;	
	Notes	When using mini-GBICs with this product, mini-GBICs with revision ' (product number ends with the letter "B" or later, e.g., J4858B, J48! required. When mini-GBICs are inserted in any mini-GBIC slot of a J9549A, thi	
	Services	Refer to the HP website at the service-level description	nge of the chassis to 32F to 104F (OC to 40C). www.hp.com/networking/services for details on ons and product numbers. For details about services r area, please contact your local HP sales office.

Accessory Product D	etails			
HP 24-port SFP v2 zl	Ports	24 open mini-GBIC (SFP) slots		
Module (J9537A)	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)	
		Weight	2.01 lb. (0.91 kg)	
	Notes	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. When installed in a zl chassis, the J8706A module limits the operating temperature range of the chassis to 32°F to 104°F (0°C to 40°C).		
	Services	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.		
HP 12-port Gig-T PoE+/12-port SFP v2 zl Module (J9637A)	Ports	12 open mini-GBIC (SFP) slots 12 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only		
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)	
		Weight	2.1 lb. (0.95 kg)	
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)	
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing	
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing	
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 0 differential 4- pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;		
	Notes	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. When mini-GBICs are inserted in any mini-GBIC slot of a J9308A, this limits the operating temperature range of the chassis to 32F to 104F (OC to 40C).		
	Services	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.		



Accessory Product De	etails		
HP 24-port Gig-T PoE+ v2 zl Module (J9534A)	Ports	24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.0 lb. (0.98 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 149°F (-40°C), noncondensing
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 0 differential 4- pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;	
	Services	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.	
HP 24-port Gig-T v2 zl Module (J9550A)	Ports	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); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.0 lb. (0.98 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 149°F (-40°C), noncondensing
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 0 differential 4- pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;	
	Services	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.	



Accessory Product Details					
HP 24-port 10/100 PoE+ v2 zl Module (J9547A)	Ports	24 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full			
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)		
		Weight	2.0 lb. (0.98 kg)		
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)		
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing		
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing		
	Cabling	Cable type: 100BASE-TX: Category 5 (or better), 100 O differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100BASE-TX;			
	Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about servic and response times in your area, please contact your local HP sales office.			
HP 24-Port 10/100 PoE+ z Module (J9478A)	l Ports	24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full			
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)		
		Weight	2.0 lb. (0.98 kg)		
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)		
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing		
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing		
	Cabling	Cable type: 100BASE-TX: Category 5 (or better), 100 0 unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100BASE-TX; 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.			
	Services				



Accessory Product De	etails		
HP 24-Port 10/100/1000 PoE+ zl Module (J9307A)	Ports	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); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.0 lb. (0.98 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 149°F (-40°C), noncondensing
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 0 differential 4- pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;	
	Services	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.	
HP 20-Port 10/100/1000 PoE+/4-Port Mini-GBIC zl Module (J9308A)	Ports	4 open mini-GBIC (SFP) slots 20 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	
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	2.1 lb. (0.95 kg)
	Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
		Operating relative humidity	15% to 95% @ 131°F (55°C), noncondensing
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95% @ 158°F (70°C), noncondensing
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 0 differential 4- pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;	
	Notes	When using mini-GBICs with this product, mini-GBICs with revision "B" or late (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	
	When mini-GBICs are inserted in any mini-GBIC slot of a J9308A, this lin operating temperature range of the chassis to 32F to 104F (OC to 40C).		



Accessory Product Details

	Services	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.	
HP 8200 zl System Support Module (J9095A)	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.4(h) in. (26.16 x 20.65 x 3.55 cm)
		Weight	1.00 lb. (0.45 kg)
	Environment	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95%, noncondensing
	Services	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.	
HP 8200 zl Management Module (J9092A)	Ports	1 RJ-45 serial console port	
	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.4(h) in. (26.16 x 20.65 x 3.55 cm)
		Weight	1.20 lb. (0.54 kg)
	Environment	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95%, noncondensing
	Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about service and response times in your area, please contact your local HP sales office.	
HP 8200 zl Fabric Module (J9093A)	Physical characteristics	Dimensions	10.3(d) x 8.13(w) x 1.75(h) in. (26.16 x 20.65 x 4.45 cm)
		Weight	1.65 lb. (0.75 kg)
	Environment	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	15% to 95%, noncondensing
	Services	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.	

HP Survivable Branch Communication zl Module powered by Microsoft Lync (J9485A)

