

### Overview

### HPE FlexFabric 12500 Switch Series



**HPE FlexFabric 12508E Switch**



**HPE FlexFabric 12518E Switch**

### Models

HPE 12504 AC Switch Chassis

HPE 12504 DC Switch Chassis

HP 12508 AC Switch Chassis

HP 12508 DC Switch Chassis

HP 12518 AC Switch Chassis

HP 12518 DC Switch Chassis

HPE FlexFabric 12508E AC Switch Chassis

HPE FlexFabric 12508E DC Switch Chassis

JC654A

JC655A

JF431C

JC652A

JF430C

JC653A

JG782A

JG783A

## Overview

HPE FlexFabric 12518E AC Switch Chassis

JG784A

HPE FlexFabric 12518E DC Switch Chassis

JG785A

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## Product overview

The HPE 12500 Switch Series is a family of powerful, next-generation routing switches with outstanding capacity and scale for the network core or data center.

Designed for high performance with nonblocking and distributed Clos architecture, these switches deliver up to 24.3 Tbps switching capacity and 10.8 Bpps throughput with up to 400 Gbps per line card slot.

The 12500 switches also have energy-efficiency features that drive down operational expenses and are ideal for organizations contemplating large-scale data center consolidations, business continuity and disaster recovery sites, metropolitan area network deployments, and other applications requiring a robust, reliable and highly available switching platform.

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## Key features

- Optimized for data centers with extensive virtualization and convergence featured
  - Broad interface options from 1G to 100G scaling up to 24.3 Tbps switching capacity
  - SDN ready with Open Flow 1.3 support
  - Large Layer 2 and Layer 3 tables to support large scale deployments
  - Fully redundant architecture with hot swappable components
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## Features and benefits

### Data center optimized

- **Scalable Layer 2 fabrics**  
build flexible, resilient, and scalable Layer 2 fabrics with SPB and HPE IRF
- **Multitenant Device Context (MDC)**  
is an innovative data center virtualization solution that enables multi-tenancy, giving customers the ability to virtualize a physical switch into multiple logical devices, with each logical switch having its own tenants
- **HPE Ethernet Virtual Interconnect (EVI)**  
is an HPE Virtual Application Network innovation that provides a Layer 2 extension across the data center to simplify the interconnectivity of geographically dispersed data centers
- **NEW Data Center Bridging (DCB) protocols**  
provide support for IEEE 802.1Qaz Data Center Bridging Exchange (DCBX), Enhanced Transmission Selection (ETS), and IEEE 802.1Qbb Priority Flow Control (PFC) for converged fabrics
- **NEW Fibre Channel over Ethernet (FCoE) features**  
deliver support for FCoE, including expansion, fabric, trunk VF and N ports, and aggregation of E-port and N-port virtualization
- **Accelerated performance with jumbo frames**  
for intra-data-center communication, or for data center to data center traffic (disaster recovery), reducing the amount of time required for data backup and recovery
- **Network load balancing (NLB) multicast ARP**  
Microsoft® NLB co-works with multicast ARP to provide servers with load balancing and fault switchover, which lowers costs and investment

### Software-defined networking

- **NEW Supports OpenFlow 1.3 specifications**  
to enable SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths

## Overview

### Performance

- **NEW High performance design with nonblocking and distributed Clos architecture**  
delivers up to 24.3 Tbps switching capacity and 10.8 Bpps throughput with up to 400 Gbps per line card slot
- **NEW High-density 1GbE,10GbE and 40GbE interface connectivity**  
offers up to 18 interface module slots to scale up to 864 1GbE and 1/10GbE and 288 40GbE ports
- **Hardware-based wirespeed access control lists (ACLs)**  
help provide high levels of security and ease of administration without impacting network performance with a feature-rich TCAM-based ACL implementation
- **High-performance processor system**  
the supervisor module uses three different processors to isolate key tasks: control plane (STP, OSPF, BGP, MPLS, etc.), fast recovery protocols (RRPP, BFD, etc.), and chassis management (temperature, power, etc.)

### Product architecture

- **Distributed architecture with separation of data and control planes**  
delivers enhanced fault tolerance and facilitates continuous operation and zero service disruption during planned or unplanned control-plane events
- **Advanced Comware modular operating system**  
brings modularity, enhanced serviceability, stability and independent process monitoring through modern Comware v7 Operating System
- **In-Service Software Upgrade (ISSU)**  
provides an upgrade of the entire chassis, or an individual task or process, with zero packet loss

### Resiliency and high availability

- **Intelligent Resilient Fabric (IRF)**  
creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router; switches do not have to be co-located and can be part of a disaster-recovery system; servers or switches can be attached using standard LACP for automatic load balancing and high availability; can eliminate the need for complex protocols like Spanning Tree Protocol, Equal-Cost Multipath (ECMP), or VRRP, thereby simplifying network operation
- **Ultrafast protocol convergence**  
enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF
- **Device Link Detection Protocol (DLDP)**  
monitors link connectivity and shuts down ports at both ends if unidirectional traffic is detected, preventing loops in STP-based networks
- **Complete set of routing protocols (Layer 3 IPv4 and IPv6)**  
support virtually all existing routing protocols (RIP, OSPF, IS-IS, and BGP) for both Layer 3 IPv4 and Layer 3 IPv6; complete support of PIM-DM, PIM-SM, PIM-SSM, and MSDP
- **Hot patching**  
the 12500 switch series supports hot patching, allowing in-service patching for some isolated software problems
- **Non Stop Forwarding/Graceful Restart (NSF/GR)**  
using standardized-based IETF protocols, the 12500 switch series provides nonstop forwarding (switching/routing) for Layer 3 routing protocols (control plane – OSPF, BGP, and MPLS), providing hitless failover
- **Fully redundant and hot swappable components**  
providing full hardware redundancy for each component including power supplies, fan trays, supervisor modules and fabric modules to enable the highest level of availability
- **Rapid Ring Protection Protocol (RRPP)**  
provides fast recovery for ring Ethernet-based topology

### Quality of Service (QoS)

- **Virtual Output Queue (VOQ)**

## Overview

prevents head-of-line (HOL) blocking per port at peak time and distributes it over a period of time, increasing switch performance

- **IEEE 802.1p prioritization**  
delivers data to devices based on the priority and type of traffic
- **Layer 4 prioritization**  
enables prioritization based on TCP/UDP port numbers
- **Broadcast control**  
allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic
- **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
- **Bandwidth shaping**
  - **Port-based rate limiting**  
provides per-port ingress-/egress-enforced maximum bandwidth
  - **Classifier-based rate limiting**  
uses access control lists (ACLs) to enforce maximum bandwidth for ingress/egress traffic on each port

## Compartmentalization

- **Department protection**  
using network virtualization standards (QinQ, VRF, and MPLS), the 12500 switch series allows organizations to isolate different business units with different resources (VRFs); using standard-based mechanisms, the network is completely virtualized, reducing cost and operations
- **IEEE 802.1ah Provider Backbone Bridge (MAC in MAC)**  
Provider Backbone Bridge (PBB) is a Layer 2 VPN technology that allows a complete separation of customer and provider domains by sealing the user MAC in the service provider MAC, which enhances the scalability of an Ethernet network

## Layer 2 switching

- **Multiple VLAN Registration Protocol (MVRP)**  
helps to maintain VLAN configuration dynamically based on current network configurations
- **GARP VLAN Registration Protocol**  
allows automatic learning and dynamic assignment of VLANs
- **IP multicast snooping and data-driven IGMP**  
automatically prevents flooding of IP multicast traffic
- **IEEE 802.1ad QinQ**  
increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed campus or metro network
- **Bridge Protocol Data Unit (BPDU) tunneling**  
transmits Spanning Tree Protocol BPDUs transparently, allowing correct tree calculations across service providers, WANs, or MANs
- **VLAN support and tagging**  
supports IEEE 802.1Q (4K VLAN IDs)
- **Spanning Tree**  
the 12500 switch series supports the entire set of STP protocols (STP, RSTP, and MSTP), facilitating a complete integration with standard networks

## Layer 3 routing

- **Layer 3 IPv4 routing**  
provides routing of IPv4 at media speed; supports static routes, RIP and RIPv2, OSPF, IS-IS, and BGP
- **RIP and RIPng support**  
provides complete support of RIP for both IPv4 and IPv6
- **OSPF and OSPFv3 support**

## Overview

- provides complete support of OSPF for both IPv4 and IPv6
- **IS-IS and IS-ISv6 support**  
provides complete support of IS-IS for both IPv4 and IPv6
- **Equal-Cost Multipath (ECMP)**  
enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth
- **Layer 3 IPv6 routing**  
provides routing of IPv6 at media speed; supports static routes, RIPng, OSPFv3, IS-ISv6, and BGP4+
- **IPv6 tunneling**  
allows a smooth transition from IPv4 to IPv6 by encapsulating IPv6 traffic over an existing IPv4 infrastructure
- **Complete multicast protocol stack**  
PIM-DM, PIM-SM, PIM-SSM, MSDP, and extensions to BGP provide one of the most complete multicast protocol stacks
- **Policy routing**  
allows custom filters for increased performance and security; supports ACLs, IP prefix, AS paths, community lists, and aggregate policies
- **MPLS support**  
provides extended support of MPLS, including MPLS VPNs and MPLS Traffic Engineering (MPLS TE)
- **VPLS support**  
provides extended support of VPLS for data center to data center communication at Layer 2; provides support of hierarchical VPLS for scalability

## Management

- **sFlow**  
provides scalable, ASIC-based network monitoring and accounting; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes
- **IEEE 802.1ab LLDP discovery**  
advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- **USB support**
  - **File copy**  
allows users to copy switch files to and from a USB flash drive
- **Multiple configuration files**  
can be stored to the flash image
- **Command-line interface (CLI)**  
provides a secure, easy-to-use CLI for configuring the module via SSH or a switch console; provides direct real-time session visibility
- **Logging**  
provides local and remote logging of events via SNMP (v2c and v3) and syslog; provides log throttling and log filtering to reduce the number of log events generated
- **Management interface control**  
enables or disables each of the following interfaces depending on security preferences: console port, Telnet port, and SSH port
- **Out-of-band interface**  
isolates management traffic from user data plane traffic for complete isolation and total reachability, no matter what happens in the data plane
- **Network management**  
HPE Intelligent Management Center (IMC) centrally configures, updates, monitors, and troubleshoots
- **Network management**  
SNMP v2c/v3 MIB-II with traps
- **RADIUS accounting**  
logs all session details that can be used to generate usage reports or interface to a billing system
- **RMON**  
provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Remote Intelligent Mirroring**

## Overview

mirrors ingress ACL-selected traffic from a switch port or VLAN to a local or remote switch port anywhere on the network

## Connectivity

- **IPv6 native support:**
  - **IPv6 host**  
enables switches to be managed and deployed at the IPv6 network's edge
  - **Dual stack (IPv4 and IPv6)**  
transitions from IPv4 to IPv6, supporting connectivity for both protocols
  - **Multicast Listener Discovery (MLD) snooping**  
forwards IPv6 multicast traffic to the appropriate interface
  - **IPv6 ACL/QoS**  
supports ACL and QoS for IPv6 network traffic, preventing traffic flooding
  - **IPv6 routing**  
supports IPv6 static routes and IPv6 versions of RIP and OSPF routing protocols

## Security

- **Control Plane Policing (CoPP)**  
provides protection against DoS attacks at infrastructure routers and switches and ease of configuration for control plane policies
- **IEEE 802.1X and RADIUS network logins**  
control port-based access for authentication and accountability
- **Secure FTP**  
allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- **Switch management logon security**  
can require either RADIUS or TACACS+ authentication for secure switch CLI logon
- **DHCP protection**  
blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- **Dynamic ARP protection**  
blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- **Secure Shell (SSHv2)**  
encrypts all transmitted data for secure, remote CLI access over IP networks
- **Secure management access**  
securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2 and SNMPv3
- **Access control lists (ACLs)**  
provide IPv4 and IPv6 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number
- **Media access control (MAC) authentication**  
provides simple authentication based on a user's MAC address; supports local or RADIUS-based authentication

## Convergence

- **Layer 2, 3, and 4 QoS mechanisms**  
support DiffServ priority tagging based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, and source port
- **IP multicast snooping and data-driven IGMP**  
automatically prevent flooding of IP multicast traffic
- **LLDP-MED**  
is a standard extension that automatically configures network devices, including LLDP-capable IP phones
- **Internet Group Management Protocol (IGMP)**  
is used by IP hosts to establish and maintain multicast groups; supports IGMPv1, v2, and v3; utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks

## Overview

- **Protocol Independent Multicast (PIM)**  
defines modes of Internet IPv4 and IPv6 multicasting to allow one-to-many and many-to-many transmission of information; supports PIM Dense Mode (DM), Sparse Mode (SM), and Source-Specific Multicast(SSM)
- **Multicast Source Discovery Protocol (MSDP)**  
is used for inter-domain multicast applications, allowing multiple PIM-SM domains to interoperate
- **Multicast VLAN**  
allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, lessening network bandwidth demand by reducing or eliminating multiple streams to each VLAN

## Monitor and diagnostics

- **Port mirroring**  
enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- **Connectivity fault detection (IEEE 802.1ag)**  
connectivity fault detection (CFD) provides a Layer 2 link Operations, Administration, and Maintenance (OAM) mechanism used for link connectivity detection and fault locating

## Investment protection

- **Modular switch fabric**  
provides investment protection by enabling future performance upgrades and increased port density
- **Environmentally friendly**  
RoHS support and low power consumption based on the latest technology provide outstanding power efficiency

## Warranty and support

- **1-year warranty**  
see <http://www.hpe.com/networking/warrantysummary> for warranty and support information included with your product purchase.
- **Software releases**  
to find software for your product, refer to <http://www.hpe.com/networking/support>; for details on the software releases available with your product purchase, refer to <http://www.hpe.com/networking/warrantysummary>

## Configuration

### Build To Order:

BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

HPE 12504 AC Switch Chassis JC654A

- 2 - MPUx (Management Ports)
- 4 - I/O module slots
- 4 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- Must select min 1 PEM
- Must select Min 1 Fans
- Must select Min 4 Fabric Modules
- 10U - Height Rack

HPE 12504 DC Switch Chassis JC655A

- 2 - MPUx (Management Ports)
- 4- I/O module slots
- 4 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- 1 PEM included
- Must select Min 1 Fans
- Must select Min 4 Fabric Modules
- 10U - Height Rack

HP 12508 AC Switch Chassis JF431C

- 2 - MPUx (Management Ports)
- 8- I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- Must select min 1 PEM
- Must select Min 2 Fans
- Must select Min 8 Fabric Modules
- 22U - Height Rack

HPE FlexFabric 12508E AC Switch Chassis JG782A

- 2 - MPUx (Management Ports)
- 8- I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- PEM included
- Must select Min 2 Fans
- Must select Min 8 Fabric Modules
- 22U - Height Rack

See Configuration  
**NOTE:1**



## Configuration

PDU Cable NA/MEX/TW/JP	JG782A#B2B
<ul style="list-style-type: none"><li>C19 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	
PDU Cable ROW	JG782A#B2C
<ul style="list-style-type: none"><li>C19 PDU Jumper Cord (ROW)</li></ul>	
High Volt Power Entry Module to Wall Power Cord	JG782A#B2E
<ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	
No Power Cord	JG782A#AC3
<ul style="list-style-type: none"><li>No Localized Power Cord Selected</li></ul>	
HP 12508 DC Switch Chassis	JC652A
<ul style="list-style-type: none"><li>2 - MPUx (Management Ports)</li><li>8- I/O module slots</li><li>9 - Fabric module slots</li><li>Must select min 1 Management Module</li><li>Must select min 3 Power Supply</li><li>1 PEM included</li><li>Must select Min 2 Fans</li><li>Must select Min 8 Fabric Modules</li><li>22U - Height Rack</li></ul>	
HPE FlexFabric 12508E DC Switch Chassis	JG783A
<ul style="list-style-type: none"><li>2 - MPUx (Management Ports)</li><li>8- I/O module slots</li><li>9 - Fabric module slots</li><li>Must select min 1 Management Module</li><li>Must select min 3 Power Supply</li><li>PEM included</li><li>Must select Min 2 Fans</li><li>Must select Min 8 Fabric Modules</li><li>22U - Height Rack</li></ul>	
HP 12518 AC Switch Chassis	JF430C
<ul style="list-style-type: none"><li>2 - MPUx (Management Ports)</li><li>18 - I/O module slots</li><li>9 - Fabric module slots</li><li>Must select min 1 Management Module</li><li>Must select min 6 Power Supply</li><li>Must select min 2 PEM</li><li>Must select min 2 Fans</li><li>Must select Min 8 Fabric Modules</li><li>38U - Height Rack</li></ul>	

## Configuration

### HPE FlexFabric 12518E AC Switch Chassis

- 2 - MPUx (Management Ports)
- 18 - I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 6 Power Supply
- PEM included
- Must select min 2 Fans
- Must select Min 8 Fabric Modules
- 38U - Height Rack

JG784A  
See Configuration  
**NOTE:1**

### PDU Cable NA/MEX/TW/JP

- C19 PDU Jumper Cord (NA/MEX/TW/JP)

JG784A#B2B

### PDU Cable ROW

- C19 PDU Jumper Cord (ROW)

JG784A#B2C

### High Volt Power Entry Module to Wall Power Cord

- NEMA L6-20P Cord (NA/MEX/JP/TW)

JG784A#B2E

### No Power Cord

- No Localized Power Cord Selected

JG784A#AC3

### HP 12518 DC Switch Chassis

- 2 - MPUx (Management Ports)
- 18 - I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 6 Power Supply
- 2 PEM included
- Must select min 2 Fans
- Must select Min 8 Fabric Modules
- 38U - Height Rack

JC653A

### HPE FlexFabric 12518E DC Switch Chassis

- 2 - MPUx (Management Ports)
- 18 - I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 6 Power Supply
- PEM included
- Must select min 2 Fans
- Must select Min 8 Fabric Modules
- 38U - Height Rack

JG785A

## Configuration

### Configuration Rules:

**Note 1** Localization required on orders without #B2B, #B2C or #B2E options.

## Box Level Integration CTO Models

### CTO Solution Sku

HPE 125xx Configure-to-order Switch Solution

JG477A

- SSP trigger SKU

### CTO Switch Chassis

HPE 12504 AC Switch Chassis

JC654A

- 2 - MPUx (Management Ports)
- 4 - I/O module slots
- 4 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- Must select min 1 PEM
- Must select Min 1 Fans
- Must select Min 4 Fabric Modules
- 10U - Height Rack

See Configuration  
**NOTE:1, 2**

HPE 12504 DC Switch Chassis

JC655A

- 2 - MPUx (Management Ports)
- 4- I/O module slots
- 4 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- 1 PEM included
- Must select Min 1 Fans
- Must select Min 4 Fabric Modules
- 10U - Height Rack

See Configuration  
**NOTE:2, 3**

### Configuration Rules:

**Note 1** If this Switch is selected at least one of these Power Supply is required: (Use #0D1 if switch is CTO)  
JF429A - HPE 12500 2000W AC Power Supply

**Note 2** If the Switch Chassis is to be Box Level Factory Integrated (CTO)), Then the #0D1 is required on the Switch Chassis and integrated to the JG477A - HP 125xx Configure-to-order Switch Solution (Min 1/Max 1 Switch per SSP)

**Note 3** If this Switch is selected at least one of these Power Supplies is required: (Use #0D1 if switch is CTO)  
JC651A - HPE 12500 1800W DC Power Supply

## Configuration

### Rack Level Integration CTO Models

#### HPE 12504 AC Switch Chassis

- 2 - MPUx (Management Ports)
- 4 - I/O module slots
- 4 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- Must select min 1 PEM
- Must select Min 1 Fans
- Must select Min 4 Fabric Modules
- 10U - Height Rack

JC654A  
See Configuration  
**NOTE:1, 2, 3**

#### HPE 12504 DC Switch Chassis

- 2 - MPUx (Management Ports)
- 4 - I/O module slots
- 4 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- 1 PEM included
- Must select Min 1 Fans
- Must select Min 4 Fabric Modules
- 10U - Height Rack

JC655A  
See Configuration  
**NOTE: 3, 4**

#### HP 12508 AC Switch Chassis

- 2 - MPUx (Management Ports)
- 8- I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- Must select min 1 PEM
- Must select Min 2 Fans
- Must select Min 8 Fabric Modules
- 22U - Height Rack

JF431C  
See Configuration  
**NOTE:1, 2, 3**

#### HPE FlexFabric 12508E AC Switch Chassis

- 2 - MPUx (Management Ports)
- 8- I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- PEM included
- Must select Min 2 Fans
- Must select Min 8 Fabric Modules
- 22U - Height Rack

JG782A  
See Configuration  
**NOTE:1, 3, 5**

## Configuration

- C19 PDU Jumper Cord (NA/MEX/TW/JP)

### PDU Cable ROW

JG782A#B2C

- C19 PDU Jumper Cord (ROW)

### No Power Cord

JG782A#AC3

- No Localized Power Cord Selected

### HP 12508 DC Switch Chassis

JC652A

See Configuration

**NOTE: 3, 4**

- 2 - MPUx (Management Ports)
- 8- I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- 1 PEM included
- Must select Min 2 Fans
- Must select Min 8 Fabric Modules
- 22U - Height Rack

### HPE FlexFabric 12508E DC Switch Chassis

JG783A

See Configuration

**NOTE: 3, 4**

- 2 - MPUx (Management Ports)
- 8- I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 3 Power Supply
- PEM included
- Must select Min 2 Fans
- Must select Min 8 Fabric Modules
- 22U - Height Rack

### HP 12518 AC Switch Chassis

JF430C

See Configuration

**NOTE:1, 2, 3**

- 2 - MPUx (Management Ports)
- 18 - I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 6 Power Supply
- Must select min 2 PEM
- Must select min 2 Fans
- Must select Min 8 Fabric Modules
- 38U - Height Rack

### HPE FlexFabric 12518E AC Switch Chassis

JG784A

See Configuration

**NOTE:1, 3, 5**

- 2 - MPUx (Management Ports)
- 18 - I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 6 Power Supply

## Configuration

- PEM included
- Must select min 2 Fans
- Must select Min 8 Fabric Modules
- 38U - Height Rack

PDU Cable NA/MEX/TW/JP

JG784A#B2B

- C19 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW

JG784A#B2C

- C19 PDU Jumper Cord (ROW)

No Power Cord

JG784A#AC3

- No Localized Power Cord Selected

HP 12518 DC Switch Chassis

JC653A

- 2 - MPUx (Management Ports)
- 18 - I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 6 Power Supply
- 2 PEM included
- Must select min 2 Fans
- Must select Min 8 Fabric Modules
- 38U - Height Rack

See Configuration

**NOTE: 3, 4**

HPE FlexFabric 12518E DC Switch Chassis

JG785A

- 2 - MPUx (Management Ports)
- 18 - I/O module slots
- 9 - Fabric module slots
- Must select min 1 Management Module
- Must select min 6 Power Supply
- PEM included
- Must select min 2 Fans
- Must select Min 8 Fabric Modules
- 38U - Height Rack

See Configuration

**NOTE: 3, 4**

### Configuration Rules:

**Note 1** If this Switch is selected at least one of these Power Supply is required: (Use #0D1 if switch is CTO)  
JF429A - HPE 12500 2000W AC Power Supply

**Note 2** When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Power Electrical Module. (See Drop down remark in the "Internal Power Supplies" section.)

**Note 3** If HPE CTO Switch Chassis is selected to be Rack Level Integration, Then the CTO Switch Chassis needs to integrate (with #0D1) to the BW966A or BW968A HPE Universal Rack Only. (Default to the BW966A.)

## Configuration

**Note 4** If this Switch is selected at least one of these Power Supplies is required: (Use #0D1 if switch is CTO)  
JC651A - HPE 12500 1800W DC Power Supply

**Note 5** Localization required on orders without #B2B or #B2C options.

**Enter the following menu selections as integrated to the CTO Model X above if order is factory built.**

## Modules

### Management Modules

System (std 0 // max 2) User Selection (min 1 // max 2) per Switch

HP 12500 Main Processing Unit

- No supported Transceivers

JC072B  
See Configuration  
**NOTE:1, 3**

HP 12500 MPU w/Comware V7 OS

- No supported Transceivers

JG497A  
See Configuration  
**NOTE:1, 3, 4**

HPE FlexFabric 12500E Main Processing Unit

- No supported Transceivers

JG802A  
See Configuration  
**NOTE:1, 3, 4**

### Configuration Rules:

**Note 1** Management Modules cannot be mixed, They must all be the same SKU.

**Note 3** Supported on JF431C, JC652A, JF430C, JC653A, JC654A and JC655A Switch Chassis only.

**Note 4** Supported on JG782A, JG783A, JG784A and JG785A Switch Chassis only.

### Fabric Modules

12504 - System (std 0 // max 4) User Selection (min 4 // max 4) per Switch

12508 and 12518 System (std 0 // max 9) User Selection (min 8 // max 9) per Switch

HPE 1250x G2 Fabric Module

JC658A  
See Configuration  
**NOTE:1, 3, 4**

HP 12518 G2 Fabric Module

JC657A  
See Configuration  
**NOTE:2, 4**

## Configuration

HPE FlexFabric 12508E Fabric Module

JG798A  
See Configuration  
**NOTE:4, 6**

HPE FlexFabric 12518E Fabric Module

JG800A  
See Configuration  
**NOTE:4, 7**

### Configuration Rules:

**Note 1** Supported on Switch JF431C and JC652A Switch Chassis only.

**Note 2** Supported on Switch JF430C and JC653A Switch Chassis only.

**Note 3** Supported on Switch JC654A and JC655A Switch Chassis only.

**Note 4** Fabric Modules cannot be mixed, They must all be the same SKU.

**Note 6** Supported on Switch JG782A and JG783A Switch Chassis only.

**Note 7** Supported on Switch JG784A and JG785A Switch Chassis only.

### I/O Modules

12504 - System (std 0 // max 4) User Selection (min 0 // max 4)

12508 - System (std 0 // max 8) User Selection (min 0 // max 8)

12518 - System (std 0 // max 18) User Selection (min 0 // max 18)

HP 12500 48-port GbE SFP LEB Module

- Min 0 // Max 48 SFP Transceivers

JC075B  
See Configuration  
**NOTE:3, 10**

HPE 12500 48-port GbE SFP LEC Module

- Min 0 // Max 48 SFP Transceivers

JC069B  
See Configuration  
**NOTE:3, 10**

HP 12500 32-port 10GbE SFP+ REB Module

- Min 0 // Max 32 SFP+ Transceivers

JC064B  
See Configuration  
**NOTE:4, 10**

HP 12500 32-port 10GbE SFP+ REC Module

- Min 0 // Max 32 SFP+ Transceivers

JC476B  
See Configuration  
**NOTE:4, 10**

HP 12500 48-port Gig-T LEB Module

JC074B



## Configuration

<ul style="list-style-type: none"> <li>No supported Transceivers</li> </ul>	See Configuration <b>NOTE:10</b>
HPE 12500 48-port Gig-T LEC Module	JC065B
<ul style="list-style-type: none"> <li>No supported Transceivers</li> </ul>	See Configuration <b>NOTE:10</b>
HP 12500 20Gbps VPN Firewall Module	JG371A
<ul style="list-style-type: none"> <li>min=0 \ max=2 SFP Transceivers</li> </ul>	See Configuration <b>NOTE:7, 9, 10</b>
HP 12500 8-port 10GbE SFP+ LEF Module	JC659A
<ul style="list-style-type: none"> <li>Min 0 // Max 8 SFP+ Transceivers</li> </ul>	See Configuration <b>NOTE:4, 10</b>
HPE 12500 48-port GbE SFP LEF Module	JC660A
<ul style="list-style-type: none"> <li>Min 0 // Max 48 SFP Transceivers</li> </ul>	See Configuration <b>NOTE:3, 10</b>
HP 12500 8-port 10GbE SFP+ LEB Module	JC780A
<ul style="list-style-type: none"> <li>Min 0 // Max 8 SFP+ Transceivers</li> </ul>	See Configuration <b>NOTE:4, 10</b>
HP 12500 8-port 10GbE SFP+ LEC Module	JC781A
<ul style="list-style-type: none"> <li>Min 0 // Max 8 SFP+ Transceivers</li> </ul>	See Configuration <b>NOTE:4, 10</b>
HP 12500 16-port 10GbE SFP+ LEB Module	JC782A
<ul style="list-style-type: none"> <li>Min 0 // Max 16 SFP+ Transceivers</li> </ul>	See Configuration <b>NOTE:4, 6, 10</b>
HP 12500 16-port 10GbE SFP+ LEC Module	JC783A
<ul style="list-style-type: none"> <li>Min 0 // Max 16 SFP+ Transceivers</li> </ul>	See Configuration <b>NOTE:4, 6, 10</b>
HPE FlexFabric 12500 16-port 40GbE QSFP+ FD Module	JG790A
<ul style="list-style-type: none"> <li>Min 0 // Max 16 QSFP+ Transceivers</li> </ul>	See Configuration <b>NOTE:2, 6, 10, 11</b>
HPE FlexFabric 12500 48-port 1/10GbE SFP+ FD Module	JG796A
<ul style="list-style-type: none"> <li>Min 0 // Max 48 SFP+ Transceivers</li> </ul>	See Configuration <b>NOTE:3, 4, 6, 10, 11</b>
HPE FlexFabric 12500 40-port 1/10GbE SFP+ FD Module	JG792A
<ul style="list-style-type: none"> <li>Min 0 // Max 40 SFP+ Transceivers</li> </ul>	See Configuration <b>NOTE:3, 4, 6, 10, 11</b>

## Configuration

HPE FlexFabric 12500 40-port 1/10GbE SFP+ FG Module

- Min 0 // Max 40 SFP+ Transceivers

JG794A

See Configuration  
**NOTE: 3, 4, 6, 10, 11**

HPE FlexFabric 12500 4-port 100GbE CFP FD Module

- Min 0 // Max 4 CFP Transceivers

JG786A

See Configuration  
**NOTE: 6, 10, 11, 12**

HPE FlexFabric 12500 4-port 100GbE CFP FG Module

- Min 0 // Max 4 CFP Transceivers

JG788A

See Configuration  
**NOTE: 6, 10, 11, 12**

### Configuration Rules:

#### Note 2 The following 40G Transceivers install into this Module:

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver

JG661A

HPE X140 40G QSFP+ MPO SR4 Transceiver

JG325B

HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver

JG709A

#### Note 3 The following Transceivers install into this Module:

HPE X170 1G SFP LC LH70 1550 Transceiver

JD109A

HPE X170 1G SFP LC LH70 1570 Transceiver

JD110A

HPE X170 1G SFP LC LH70 1590 Transceiver

JD111A

HPE X170 1G SFP LC LH70 1610 Transceiver

JD112A

HPE X170 1G SFP LC LH70 1510 Transceiver

JD115A

HPE X120 1G SFP LC LH100 Transceiver

JD103A

HPE X125 1G SFP LC LH40 1310nm Transceiver

JD061A

HPE X120 1G SFP LC LH40 1550nm Transceiver

JD062A

HPE X120 1G SFP RJ45 T Transceiver

JD089B

HPE X120 1G SFP LC SX Transceiver

JD118B

HPE X120 1G SFP LC LX Transceiver

JD119B

HPE X120 1G SFP LC BX 10-U Transceiver

JD098B

HPE X120 1G SFP LC BX 10-D Transceiver

JD099B

#### Note 4 The following Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X130 10G SFP+ LC SR Transceiver

JD092B

HPE X130 10G SFP+ LC LRM Transceiver

JD093B

HPE X130 10G SFP+ LC LR Transceiver

JD094B

HPE X130 10G SFP+ LC SR Data Center Transceiver

JL437A

HPE X130 10G SFP+ LC LRM Data Center Transceiver

JL438A

HPE X130 10G SFP+ LC LR Data Center Transceiver

JL439A

HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable

JD097C

HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable

JG081C

HPE X130 10G SFP+ LC ER 40km Transceiver

JG234A

HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable

JC784C

## Configuration

### Note 5 The following Transceivers install into this Module:

HPE X135 10G XFP LC ER Transceiver	JD121A
HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
HPE X130 10G XFP LC SR Transceiver	JD117B
HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver	JD107A
HPE X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver	JG226A
HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver	JG227A
HPE X180 10G XFP LC LH 80km 1540.56nm DWDM Transceiver	JG228A
HPE X180 10G XFP LC LH 80km 1542.14nm DWDM Transceiver	JG229A
HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver	JG230A
HPE X180 10G XFP LC LH 80km 1558.98nm DWDM Transceiver	JG231A
HPE X180 10G XFP LC LH 80km 1559.79nm DWDM Transceiver	JG232A
HPE X180 10G XFP LC LH 80km 1560.61nm DWDM Transceiver	JG233A

### Note 6 If this Module is selected then ONLY the following Fabric Modules must be selected as well:

HP 12518 G2 Fabric Module	JC657A
HPE 1250x G2 Fabric Module	JC658A
HPE FlexFabric 12508E Fabric Module	JG798A
HPE FlexFabric 12518E Fabric Module	JG800A

### Note 7 The following Transceivers install into this Module: (Use #0D1 if switch is CTO) - if applicable

HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B

Note 9 "These modules are Not Supported with Management Module JG497A - HPE 12500 Type A MPU w/Comware v7 OS.  
They are Only Supported with Management Modules JC072B - HPE 12500 Main Processing Unit,

Note 10 Supported on JF431C, JC652A, JF430C, JC653A, JC654A, JC655A, JG782A, JG783A, JG784A and JG785A Switch Chassis only.

Note 11 These modules require JG800A, JG798A, JC658A, JG657A, JC815A, JC816A, JG497A or JG802A MPU.

### Note 12 The following Transceivers install into this Module:

HPE X150 100G CFP LC LR4 10km SM Transceiver	JG829A
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Remarks JC064B and JC476B - Do not install the card in any of the following slots: slot 16, 17, 18, or 19 of the S12518.

## Transceivers

### SFP Transceivers

HPE X170 1G SFP LC LH70 1550 Transceiver	JD109A
HPE X170 1G SFP LC LH70 1570 Transceiver	JD110A

## Configuration

HPE X170 1G SFP LC LH70 1590 Transceiver	JD111A
HPE X170 1G SFP LC LH70 1610 Transceiver	JD112A
HPE X170 1G SFP LC LH70 1510 Transceiver	JD115A
HPE X120 1G SFP LC LH100 Transceiver	JD103A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B

### SFP+ Transceivers

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC SR Data Center Transceiver	JL437A
HPE X130 10G SFP+ LC LRM Data Center Transceiver	JL438A
HPE X130 10G SFP+ LC LR Data Center Transceiver	JL439A
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C

### QSFP+ Transceivers

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A

### XFP Transceivers

HPE X135 10G XFP LC ER Transceiver	JD121A
HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver	JD107A
HPE X130 10G XFP LC SR Transceiver	JD117B
HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
HPE X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver	JG226A
HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver	JG227A
HPE X180 10G XFP LC LH 80km 1540.56nm DWDM Transceiver	JG228A
HPE X180 10G XFP LC LH 80km 1542.14nm DWDM Transceiver	JG229A
HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver	JG230A
HPE X180 10G XFP LC LH 80km 1558.98nm DWDM Transceiver	JG231A
HPE X180 10G XFP LC LH 80km 1559.79nm DWDM Transceiver	JG232A
HP X180 10G XFP LC LH 80km 1560.61nm DWDM Transceiver	JG233A

### CFP Transceivers

## Configuration

HPE X150 100G CFP LC LR4 10km SM Transceiver

JG829A

## Internal Power Supplies

12508 and 12504 - System (std 0 // max 6) User Selection (min 3 // max 6)

12508E - System (std 0 // max 8) User Selection (min 3 // max 8)

12518 - System (std 0 // max 12) User Selection (min 6 // max 12)

12518E - System (std 0 // max 16) User Selection (min 6 // max 16)

HPE 12500 2000W AC Power Supply

JF429A  
See Configuration  
**NOTE:1**

HPE 12500 1800W DC Power Supply

JC651A  
See Configuration  
**NOTE:2**

### Configuration Rules:

**Note 1** Supported on Switches JC654A, JF431C, JF430C, JG782A and JG784A only.

**Note 2** Supported on Switches JC655A, JC652A, JC653A, JG783A and JG785A only.

**Remarks:** 12504 and 12508 only - Default 6 power supplies and allow the user to change down to 3.

12508E only - Default 6 power supplies and allow the user to change down to 3.

12518 only - Default 12 power supplies and allow the user to change down to 6.

12518E only - Default 12 power supplies and allow the user to change down to 6.

The power module support load balancing and N+1/N+M redundancy. Deploying N+1 power redundancy

The total number of power modules (JF431C, JF430C) = Ceiling (total power load of the chassis/2000) + 1

For example, if the total load of the chassis is 3000 W, the number of power modules must be  $2 + 1 = 3$ .

Deploying 1:1 power redundancy

JF431C-Requires 6 power modules.

JF430C-Total number of power modules = [Ceiling (total power load of the chassis/2000) ] x 2

For example, if the total power load of the chassis is 7000 W, the total number of power modules must be  $(4 + 1) \times 2 = 10$ .

Localization is not required on these internal AC power supplies. Localization is covered on the chassis for the 125x8E AC models (JG782A, JG784A), or on the PEMs listed below for the AC 125xx models (JC654A, JF431C, JF430C).

## Power Electrical Module

## Configuration

12504 and 12508 Only - System (std 0 // max 1) User Selection (min 1 // max 1)

12518 - System (std 0 // max 2) User Selection (min 2 // max 2)

HPE 12500 AC Power Entry Module	JF426A See Configuration <b>NOTE:1, 2, 3,4</b>
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>C19 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	JF426A#B2B
PDU Cable ROW <ul style="list-style-type: none"> <li>C19 to C20 Jumper Cord</li> </ul>	JF426A#B2C
High Volt Power Entry Module to Wall Power Cord <ul style="list-style-type: none"> <li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	JF426A#B2E
No Power Cord <ul style="list-style-type: none"> <li>No Localized Power Cord Selected</li> </ul>	JF426A#AC3

### Configuration Rules:

**Note 1** Supported on Switch JC654x, JF431x and JF430x only.

**Note 2** Localization required on orders without #B2B, #B2C or #B2E options.

**Note 3** When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Power Electrical Module. (See Drop down remark in the "Internal Power Supplies" section.)

**Note 4** #B2E is Offered only in NA, Mexico, Taiwan and Japan.

Remarks: Drop down under power supply should offer the following options and results:

Power Electrical Module to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW.  
(Watson Default B2B or B2C for Rack Level CTO)

Power Electrical Module to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)

High Volt Power Electrical Module to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)

## Server Specific Options

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A

## Configuration

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A

## Cable Guides

System (std 0 // max 1) User Selection (min 0 // max 1) Per Switch

HP 12500 Side Cable Management Guide	JC084A
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HPE 12508 Top and Bottom Cable Guides for AC Powered Switch	JC785A See Configuration <b>NOTE:1</b>
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HPE 12518 Top and Bottom Cable Guides for AC Powered Switch	JC786A See Configuration <b>NOTE:2</b>
---	--

HPE 12508 Top and Bottom Cable Guides for DC Powered Switch	JC787A See Configuration <b>NOTE:3</b>
---	--

HPE 12518 Top and Bottom Cable Guides for DC Powered Switch	JC788A See Configuration <b>NOTE:4</b>
---	--

HPE FlexFabric 12508E Optional Extended Cable Guide for AC Powered Switch	JG830A See Configuration <b>NOTE:5</b>
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HPE FlexFabric 12518E Optional Extended Cable Guide for AC Powered Switch	JG831A See Configuration <b>NOTE:6</b>
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HPE FlexFabric 12508E Optional Extended Cable Guide for DC Powered Switch	JG832A See Configuration <b>NOTE:7</b>
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HPE FlexFabric 12518E Optional Extended Cable Guide for DC Powered Switch	JG833A See Configuration <b>NOTE:8</b>
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### Configuration Rules:

**Note 1** Supported on Switch JF431x - HPE 12508 AC Switch Chassis only.

**Note 2** Supported on Switch JF430x - HPE 12518 AC Switch Chassis only.

**Note 3** Supported on Switch JC652x -HPE 12508 DC Switch Chassis only.

## Configuration

Note 4 Supported on Switch JC653x - HPE 12518 DC Switch Chassis only.

Note 5 Supported on Switch JG782A - HPE FlexFabric 12508E AC Switch Chassis only.

Note 6 Supported on Switch JG784A - HPE FlexFabric 12518E AC Switch Chassis only.

Note 7 Supported on Switch JG783A - HPE FlexFabric 12508E DC Switch Chassis only.

Note 8 Supported on Switch JG785A - HPE FlexFabric 12518E DC Switch Chassis only.

Remarks: These items are optional .and used by customers for I/O cabling management.

### Fan Assemblies

12504 Only - System (std 0 // max 1) User Selection (min 1 // max 1) Per Switch

12508 and 12518 Only - System (std 0 // max 2) User Selection (min 2 // max 2) Per Switch

HPE 12504 Fan Assembly

JC664A  
See Configuration  
**NOTE:3**

HPE 12518 Fan Assembly

JC080A  
See Configuration  
**NOTE:2**

HPE 12508 Fan Assembly

JC081A  
See Configuration  
**NOTE:1**

HPE FlexFabric 12500E Fan Tray Assembly

JG805A  
See Configuration  
**NOTE:4**

### Configuration Rules:

Note 1 Supported on Switch JF431C and JC652A Switch Chassis only.

Note 2 Supported on Switch JF430C and JC653A Switch Chassis only.

Note 3 Supported on Switch JC654A and JC655A Switch Chassis only.

Note 4 Supported on JG782A, JG783A, JG784A and JG785A Switch Chassis only

### Air Filter Assemblies

System (std 0 // max 1) User Selection (min 0 // max 1)



## Configuration

HPE 12508 Optional Air Filter	JC082A See Configuration <b>NOTE:1</b>
HPE 12518 Optional Air Filter	JC083A See Configuration <b>NOTE:2</b>
HPE FlexFabric 12508E Optional Air Filter	JG808A See Configuration <b>NOTE:3</b>
HPE FlexFabric 12518E Optional Air Filter	JG809A See Configuration <b>NOTE:4</b>

### Configuration Rules:

- Note 1 Supported on Switch JF431C and JC652A Switch Chassis only.
- Note 2 Supported on Switch JF430C and JC653A Switch Chassis only.
- Note 3 Supported on Switch JF431C, JC652A, JG782A and JG783A Switch Chassis only.
- Note 4 Supported on Switch JF430C, JC653A, JG784A and JG785A Switch Chassis only.

### Power Monitor Module

12508E and 12518E only-System (std 0 // max 1) User Selection (min 0 // max 1) Per Switch  
 12504 and 12508 only-System (std 0 // max 1) User Selection (min 0 // max 1) Per Switch  
 12518 only-System (std 0 // max 2) User Selection (min 0 // max 2) Per Switch

HPE 12500 Spare Power Monitor Module	JC502A See Configuration <b>NOTE:1</b>
HPE FlexFabric 12500E Spare Power Monitor Module	JG804A See Configuration <b>NOTE:2</b>

### Configuration Rules:

- Note 1 This item is only used to replace the Power Monitor Module of an JF431C, JF430C, JC652A and JC653A . A host is delivered with the Power Monitor Module.
- Note 2 This item is only used to replace the Power Monitor Module of an JG782A, JG784A, JG783A and JG785A . A host is delivered with the Power Monitor Module.

## Configuration

### Power Cables

12500 only-System (std 0 // max 6 or 12) User Selection (min 0 // max 6 or 12)

12500E only-System (std 0 // max 8 or 16) User Selection (min 0 // max 8 or 16)

HPE X210 10m JG Connector to Bare 6AWG 37800 Watt 72V DC Power Cable

JG280A  
See Configuration  
**NOTE:1**

#### Configuration Rules:

**Note 1** If the DC Power Supplies are selected, Then the number of DC power cables should match the number of DC power supplies.

### Compact Flash cards

HPE X600 1G Compact Flash Card

- Parts List Only

JC684A

HPE FlexFabric 4GB Compact Flash Card

JG806A  
See Configuration  
**NOTE:1**

#### Configuration Rules:

**Note 1** Supported on MPU Module JG802A only. (std 0 // max 1) User Selection (min 0 // max 1)

### SDRAM

HP X610 1GB DDR2 SDRAM Memory

- Parts List Only

JC071A

HP A-Series 2GB Registered DDR2 SDRAM

- Parts List Only

JC609A

HPE FlexFabric 4GB DDR3 SDRAM Memory

JG807A  
See Configuration  
**NOTE:1**

#### Configuration Rules:

**Note 1** Supported on MPU Module JG802A only. (std 0 // max 1) User Selection (min 0 // max 1)

### Mounting Kit

## Configuration

HPE X421 Chassis Universal 4-post Rackmount Kit

JC665A

Remarks: This item is optional and used by customers to allow the chassis to slide in and out of the rack

## Technical Specifications

### HPE 12504 AC Switch Chassis (JC654A)

<b>I/O ports and slots</b>	4 open module slots Supports a maximum of 192 Gigabit Ethernet ports or 192 1/10GbE ports or 64 40GbE ports, or a combination	
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 4 switch fabric slots	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(w) x 27.87(d) x 17.4(h) in (44.2 x 70.8 x 44.2 cm) (10U height)
	<b>Weight</b>	132.28 lb (60 kg)
	<b>Full configuration weight</b>	220.46 lb (100 kg)
<b>Memory and processor</b>	<b>Gigabit Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)
	<b>10G Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)
	<b>Management Module</b>	Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM
	<b>Fabric</b>	PowerPC @ 400 MHz, 128 MB RAM
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet	
<b>Performance</b>	<b>Throughput</b>	1920 Mpps
	<b>Routing/Switching capacity</b>	3240 Gb/s
	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
<b>Environment</b>	<b>Operating relative humidity</b>	5% to 95%, non-condensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, non-condensing
	<b>Frequency</b>	50/60 Hz
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	8123 BTU/hr (8569.77 kJ/hr)
	<b>Voltage</b>	100 - 120 / 200 - 240 VAC, rated (depending on power supply chosen)
	<b>Maximum power rating</b>	2380 W
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance	
<b>Emissions</b>	VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003

## Technical Specifications

	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	

### HPE 12504 DC Switch Chassis (JC655A)

<b>I/O ports and slots</b>	4 open module slots Supports a maximum of 192 Gigabit Ethernet ports or 192 1/10GbE ports or 64 40GbE ports, or a combination	
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 4 switch fabric slots	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(w) x 27.87(d) x 17.4(h) in (44.2 x 70.8 x 44.2 cm) (10U height)
	<b>Weight</b>	132.28 lb (60 kg)
	<b>Full configuration weight</b>	220.46 lb (100 kg)
<b>Memory and processor</b>	<b>Gigabit Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)
	<b>10G Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)
	<b>Management Module</b>	Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM
	<b>Fabric</b>	PowerPC @ 400 MHz, 128 MB RAM
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet	
<b>Performance</b>	<b>Throughput</b>	up to 1920 Mpps
	<b>Routing/Switching capacity</b>	3240 Gbps
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	5% to 95%, non-condensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	8123 BTU/hr (8569.77 kJ/hr)
	<b>Voltage</b>	-48 to -60 VDC, rated

## Technical Specifications

		(depending on power supply chosen)
	<b>Maximum power rating</b>	2380 W
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>		CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance
<b>Emissions</b>		VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003
	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>		IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface
<b>Services</b>		Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 12508 AC Switch Chassis (JF431C)

<b>I/O ports and slots</b>		8 open module slots Supports a maximum of 384 Gigabit Ethernet ports or 384 1/10GbE ports or 128 40GbE ports, or a combination
<b>Additional ports and slots</b>		2 MPU (for management modules) slots 9 switch fabric slots
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(d) x 29.13(w) x 38.39(h) in. (44.2 x 73.99 x 97.51 cm) (22U height)
	<b>Weight</b>	209.44 lb (95 kg)
	<b>Full configuration weight</b>	374.78 lb. (170 kg)
<b>Memory and processor</b>	<b>Gigabit Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)
	<b>10G Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)
	<b>Management Module</b>	Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM
	<b>Fabric</b>	PowerPC @ 400 MHz, 128 MB RAM

## Technical Specifications

<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet	
<b>Performance</b>	<b>Throughput</b>	up to 3840 Mpps
	<b>Routing/Switching capacity</b>	6120 Gbps
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	5% to 95%, non-condensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	Achieved Miercom Certified Green Award*	
	* Products within this series have achieved sufficient scores in each of the rated criteria to achieve the Miercom Certified Green distinction Award. See the Specifications section of this series for more information.	
	<b>Description</b>	10GbE modules consume half the power compared to competitive products; redundant, scalable, 90% efficient power supplies deliver high reliability in the data center; new ASIC technology has low power consumption when providing rich features.
	<b>Maximum heat dissipation</b>	14587 BTU/hr (15389.29 kJ/hr)
	<b>Voltage</b>	100 - 120 / 200 - 240 VAC, rated (depending on power supply chosen)
	<b>Maximum power rating</b>	4750 W
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance	
<b>Emissions</b>	VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003
	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3

## Technical Specifications

<b>Management</b>	IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 12508 DC Switch Chassis (JC652A)

<b>I/O ports and slots</b>	8 open module slots Supports a maximum of 384 Gigabit Ethernet ports or 384 1/10GbE ports or 128 40GbE ports, or a combination								
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 9 switch fabric slots								
<b>Physical characteristics</b>	<table> <tr> <td><b>Dimensions</b></td> <td>17.4(d) x 29.13(w) x 38.39(h) in. (44.2 x 73.99 x 97.51 cm) (22U height)</td> </tr> <tr> <td><b>Weight</b></td> <td>209.44 lb (95 kg)</td> </tr> <tr> <td><b>Full configuration weight</b></td> <td>374.78 lb. (170 kg)</td> </tr> </table>	<b>Dimensions</b>	17.4(d) x 29.13(w) x 38.39(h) in. (44.2 x 73.99 x 97.51 cm) (22U height)	<b>Weight</b>	209.44 lb (95 kg)	<b>Full configuration weight</b>	374.78 lb. (170 kg)		
<b>Dimensions</b>	17.4(d) x 29.13(w) x 38.39(h) in. (44.2 x 73.99 x 97.51 cm) (22U height)								
<b>Weight</b>	209.44 lb (95 kg)								
<b>Full configuration weight</b>	374.78 lb. (170 kg)								
<b>Memory and processor</b>	<table> <tr> <td><b>Gigabit Module</b></td> <td>PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)</td> </tr> <tr> <td><b>10G Module</b></td> <td>PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)</td> </tr> <tr> <td><b>Management Module</b></td> <td>Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM</td> </tr> <tr> <td><b>Fabric</b></td> <td>PowerPC @ 400 MHz, 128 MB RAM MB</td> </tr> </table>	<b>Gigabit Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)	<b>10G Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)	<b>Management Module</b>	Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM	<b>Fabric</b>	PowerPC @ 400 MHz, 128 MB RAM MB
<b>Gigabit Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)								
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<b>Management Module</b>	Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM								
<b>Fabric</b>	PowerPC @ 400 MHz, 128 MB RAM MB								
<b>Mounting</b>	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet								
<b>Performance</b>	<table> <tr> <td><b>Throughput</b></td> <td>up to 3840 Mpps</td> </tr> <tr> <td><b>Routing/Switching capacity</b></td> <td>6120 Gbps</td> </tr> </table>	<b>Throughput</b>	up to 3840 Mpps	<b>Routing/Switching capacity</b>	6120 Gbps				
<b>Throughput</b>	up to 3840 Mpps								
<b>Routing/Switching capacity</b>	6120 Gbps								
<b>Environment</b>	<table> <tr> <td><b>Operating temperature</b></td> <td>32°F to 104°F (0°C to 40°C)</td> </tr> <tr> <td><b>Operating relative humidity</b></td> <td>5% to 95%, non-condensing</td> </tr> <tr> <td><b>Nonoperating/Storage temperature</b></td> <td>-40°F to 158°F (-40°C to 70°C)</td> </tr> <tr> <td><b>Nonoperating/Storage relative humidity</b></td> <td>5% to 95%, non-condensing</td> </tr> </table>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)	<b>Operating relative humidity</b>	5% to 95%, non-condensing	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, non-condensing
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<b>Nonoperating/Storage relative humidity</b>	5% to 95%, non-condensing								
<b>Electrical characteristics</b>	<table> <tr> <td><b>Maximum heat dissipation</b></td> <td>14587 BTU/hr (15389.29 kJ/hr)</td> </tr> <tr> <td><b>Voltage</b></td> <td>-48 to -60 VDC, rated (depending on power supply chosen)</td> </tr> <tr> <td><b>Maximum power rating</b></td> <td>4750 W</td> </tr> <tr> <td><b>Notes</b></td> <td>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</td> </tr> </table>	<b>Maximum heat dissipation</b>	14587 BTU/hr (15389.29 kJ/hr)	<b>Voltage</b>	-48 to -60 VDC, rated (depending on power supply chosen)	<b>Maximum power rating</b>	4750 W	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Maximum heat dissipation</b>	14587 BTU/hr (15389.29 kJ/hr)								
<b>Voltage</b>	-48 to -60 VDC, rated (depending on power supply chosen)								
<b>Maximum power rating</b>	4750 W								
<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.								
<b>Safety</b>	CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance								
<b>Emissions</b>	VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A								



## Technical Specifications

<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003
	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	

### HP 12518 AC Switch Chassis (JF430C)

<b>I/O ports and slots</b>	18 open module slots Supports a maximum of 864 Gigabit Ethernet ports or 864 1/10GbE ports or 288 40GbE ports, or a combination	
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 9 switch fabric slots	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(d) x 29.13(w) x 66.38(h) in. (44.2 x 73.99 x 168.61 cm) (38U height)
	<b>Weight</b>	352.74 lb (160 kg)
	<b>Full configuration weight</b>	639.33 lb (290 kg)
	<b>Memory and processor</b>	<b>Gigabit Module</b>
<b>10G Module</b>		PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)
<b>Management Module</b>		Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM
<b>Fabric</b>		PowerPC @ 400 MHz, 128 MB RAM
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet	
<b>Performance</b>	<b>Throughput</b>	up to 8640 Mpps
	<b>Routing/Switching capacity</b>	13.3 Tbps
	<b>Environment</b>	<b>Operating temperature</b>
<b>Operating relative humidity</b>		5% to 95%, non-condensing
<b>Nonoperating/Storage temperature</b>		-40°F to 158°F (-40°C to 70°C)
<b>Nonoperating/Storage relative humidity</b>		5% to 95%, non-condensing

## Technical Specifications

<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Maximum heat dissipation</b>	32859 BTU/hr (34666.24 kJ/hr)
	<b>Voltage</b>	100 - 120 / 200 - 240 VAC, rated (depending on power supply chosen)
	<b>Maximum power rating</b>	10700 W
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance	
<b>Emissions</b>	VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003
	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3	
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	

### HP 12518 DC Switch Chassis (JC653A)

<b>I/O ports and slots</b>	18 open module slots Supports a maximum of 864 Gigabit Ethernet ports or 864 1/10GbE ports or 288 40GbE ports, or a combination	
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 9 switch fabric slots	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(d) x 29.13(w) x 66.38(h) in. (44.2 x 73.99 x 168.61 cm) (38U height)
	<b>Weight</b>	352.74 lb (160 kg)
	<b>Full configuration weight</b>	639.33 lb (290 kg)
<b>Memory and processor</b>	<b>Gigabit Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)

## Technical Specifications

	<b>10G Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)
	<b>Management Module</b>	Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM
	<b>Fabric</b>	PowerPC @ 400 MHz, 128 MB RAM
<b>Mounting and enclosure</b>	Mounts in an EIA-standard	19 in. Telco rack or equipment cabinet
<b>Performance</b>	<b>Throughput</b>	up to 8640 Mpps
	<b>Routing/Switching capacity</b>	13.3 Tbps
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	5% to 95%, non-condensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	32859 BTU/hr (34666.24 kJ/hr)
	<b>Maximum power rating</b>	10700 W
	<b>Voltage</b>	-48 to -60 VDC, rated (depending on power supply chosen)
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance	
<b>Emissions</b>	VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003
	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for	

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details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HPE FlexFabric 12508E AC Switch Chassis (JG782A)

<b>I/O ports and slots</b>	8 open module slots Supports a maximum of 384 Gigabit Ethernet ports or 384 1/10GbE ports or 128 40GbE ports
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 9 switch fabric slots
<b>Physical characteristics</b>	<p><b>Dimensions</b> 17.4(w) x 29.13(d) x 38.39(h) in (44.2 x 74.0 x 97.51 cm) (22U height)</p> <p><b>Weight</b> 242.51 lb (110 kg)</p> <p><b>Full configuration weight</b> 374.78 lb (170 kg)</p>
<b>Memory and processor</b>	<p><b>Gigabit Module</b> PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)</p> <p><b>10G Module</b> PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)</p> <p><b>Management Module</b> Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM</p> <p><b>Fabric</b> PowerPC @ 400 MHz, 128 MB RAM</p>
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet
<b>Performance</b>	<p><b>Throughput</b> up to 4800 Mpps</p> <p><b>Routing/Switching capacity</b> 10.8 Tbps</p>
<b>Environment</b>	<p><b>Operating temperature</b> 32°F to 104°F (0°C to 40°C)</p> <p><b>Operating relative humidity</b> 5% to 95%, non-condensing</p> <p><b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)</p> <p><b>Nonoperating/Storage relative humidity</b> 5% to 95%, non-condensing</p>
<b>Electrical characteristics</b>	<p><b>Frequency</b> 50/60 Hz Achieved Miercom Certified Green Award</p> <p><b>Description</b> 10GbE modules consume half the power compared to competitive products; redundant, scalable, 90% efficient power supplies deliver high reliability in the data center; new ASIC technology has low power consumption when providing rich features.</p> <p><b>Maximum heat dissipation</b> 14587 BTU/hr (15389.29 kJ/hr)</p> <p><b>Voltage</b> 100 - 120 / 200 - 240 VAC, rated (depending on power supply chosen)</p> <p><b>Maximum power rating</b> 4750 W</p> <p><b>Notes</b> Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p>
<b>Safety</b>	CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance
<b>Emissions</b>	VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC

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	Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003
	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3	
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	

### HPE FlexFabric 12508E DC Switch Chassis (JG783A)

<b>I/O ports and slots</b>	8 open module slots Supports a maximum of 384 Gigabit Ethernet ports or 384 1/10GbE ports or 128 40GbE ports	
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 9 switch fabric slots	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(w) x 29.13(d) x 38.39(h) in (44.2 x 73.99 x 97.51 cm) (22U height)
	<b>Weight</b>	209.44 lb (95 kg)
	<b>Full configuration weight</b>	374.78 lb (170 kg)
	<b>Memory and processor</b>	<p><b>Gigabit Module</b> PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)</p> <p><b>10G Module</b> PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)</p> <p><b>Management Module</b> Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM</p> <p><b>Fabric</b> PowerPC @ 400 MHz, 128 MB RAM</p>
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet	
<b>Performance</b>	<b>Throughput</b>	up to 4800 Mpps
	<b>Routing/Switching capacity</b>	10.8 Tbps
	<b>Environment</b>	<p><b>Operating temperature</b> 32°F to 104°F (0°C to 40°C)</p> <p><b>Operating relative humidity</b> 5% to 95%, non-condensing</p> <p><b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)</p> <p><b>Nonoperating/Storage relative humidity</b> 5% to 95%, non-condensing</p>

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<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	14587 BTU/hr (15389.29 kJ/hr)
	<b>Maximum power rating</b>	4750 W
	<b>Voltage</b>	-48 to -60 VDC, rated (depending on power supply chosen)
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance	
<b>Emissions</b>	VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003
	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3	
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	

### HPE FlexFabric 12518E AC Switch Chassis (JG784A)

<b>I/O ports and slots</b>	18 open module slots Supports a maximum of 864 Gigabit Ethernet ports or 864 1/10GbE ports or 288 40GbE ports, or a combination	
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 9 switch fabric slots	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(w) x 29.13(d) x 66.38(h) in (44.2 x 73.99 x 168.61 cm) (38U height)
	<b>Weight</b>	352.74 lb (160 kg)
	<b>Full configuration weight</b>	639.33 lb (290 kg)
<b>Memory and processor</b>	<b>Gigabit Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)
	<b>10G Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)

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	<b>Management Module</b>	Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM
	<b>Fabric</b>	PowerPC @ 400 MHz, 128 MB RAM
<b>Mounting and enclosure</b>		Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet
<b>Performance</b>	<b>Throughput</b>	up to 10.8 Bpps
	<b>Routing/Switching capacity</b>	24.3 Tbps
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	5% to 95%, non-condensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Maximum heat dissipation</b>	32859 BTU/hr (34666.24 kJ/hr)
	<b>Voltage</b>	100 - 120 / 200 - 240 VAC, rated (depending on power supply chosen)
	<b>Maximum power rating</b>	10700 W
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>		CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance
<b>Emissions</b>		VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003
	<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
	<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
	<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
	<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
	<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>		IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface
<b>Services</b>		Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for

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details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HPE FlexFabric 12518E DC Switch Chassis (JG785A)

<b>I/O ports and slots</b>	18 open module slots Supports a maximum of 864 Gigabit Ethernet ports or 864 1/10GbE ports or 288 40GbE ports, or a combination	
<b>Additional ports and slots</b>	2 MPU (for management modules) slots 9 switch fabric slots	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(w) x 29.13(d) x 66.38(h) in (44.2 x 73.99 x 168.61 cm) (38U height)
	<b>Weight</b>	352.74 lb (160 kg)
	<b>Full configuration weight</b>	639.33 lb (290 kg)
<b>Memory and processor</b>	<b>Gigabit Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress, shared by 24 1-GbE ports)
	<b>10G Module</b>	PowerPC @ 667 MHz, 1 GB RAM; Packet buffer size: 512 MB (Ingress/shared by 2 10GbE ports)
	<b>Management Module</b>	Quad Core CPU @ 1800 MHz, 512 MB flash, 4 GB compact flash, 8 GB RAM
	<b>Fabric</b>	PowerPC @ 400 MHz, 128 MB RAM
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet	
<b>Performance</b>	<b>Throughput</b>	up to 10.8 Bpps
	<b>Routing/Switching capacity</b>	24.3 Tbps
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	5% to 95%, non-condensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	32859 BTU/hr (34666.24 kJ/hr)
	<b>Maximum power rating</b>	10700 W
	<b>Voltage</b>	-48 to -60 VDC, rated (depending on power supply chosen)
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	CE Labeled; cUL Certified; UL Listed; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60825; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1-03; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; UL 60950-1:2003; EN 60950-1:2001; ROHS Compliance	
<b>Emissions</b>	VCCI Class A; EN 55022 Class A; VCCI V-3/2000.04; ICES-003 Class A; AS/NZS CISPR22 Class A; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
<b>Immunity</b>	<b>Generic</b>	ETSI EN 300 386 V1.3.3
	<b>EN</b>	EN 55024:1998+ A1:2001 + A2:2003



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<b>ESD</b>	EN 61000-4-2; IEC61000-4-2
<b>Radiated</b>	EN 61000-4-3; IEC61000-4-3
<b>EFT/Burst</b>	EN 61000-4-4; IEC61000-4-4
<b>Surge</b>	EN 61000-4-5; IEC61000-4-5
<b>Conducted</b>	EN 61000-4-6; IEC61000-4-6
<b>Power frequency magnetic field</b>	IEC 61000-4-8; EN61000-4-8
<b>Voltage dips and interruptions</b>	EN 61000-4-11; IEC61000-4-11
<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3

### Management

IMC - Intelligent Management Center; command-line interface; out-of-band management (serial RS-232C); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface

### Services

Refer to the Hewlett Packard Enterprise website at: <http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### Standards and protocols

(applies to all products in series)

<b>BGP</b>	RFC 1657 Definitions of Managed Objects for BGPv4	RFC 2466 ICMPv6 MIB
	RFC 1771 BGPv4	RFC 2571 SNMP Framework MIB
	RFC 1772 Application of the BGP	RFC 2572 SNMP-MPD MIB
	RFC 1773 Experience with the BGP-4 Protocol	RFC 2573 SNMP-Target MIB
	RFC 1774 BGP-4 Protocol Analysis	RFC 2613 SMON MIB
	RFC 1997 BGP Communities Attribute	RFC 2618 RADIUS Client MIB
	RFC 1998 PPP Gandalf FZA Compression Protocol	RFC 2620 RADIUS Accounting MIB
	RFC 2385 BGP Session Protection via TCP MD5	RFC 2665 Ethernet-Like-MIB
	RFC 2439 BGP Route Flap Damping	RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
	RFC 2796 BGP Route Reflection	RFC 2737 Entity MIB (Version 2)
	RFC 2842 Capability Advertisement with BGP-4	RFC 2787 VRRP MIB
	RFC 2858 BGP-4 Multi-Protocol Extensions	RFC 2819 RMON MIB
	RFC 2918 Route Refresh Capability	RFC 2863 The Interfaces Group MIB
		RFC 2925 Ping MIB
		RFC 2932IP (Multicast Routing MIB)
		RFC 2933 IGMP MIB
<b>Denial of service protection</b>	RFC 2267 Network Ingress Filtering	RFC 3273 HC-RMON MIB
	Automatic Filtering of well known Denial of Service Packets	RFC 3414 SNMP-User based-SM MIB
	CPU DoS Protection	RFC 3415 SNMP-View based-ACM MIB
	Rate Limiting by ACLs	RFC 3418 MIB for SNMPv3
		RFC 3621 Power Ethernet MIB
		RFC 3813 MPLS LSR MIB
		RFC 3814 MPLS FTN MIB
<b>Device management</b>	RFC 1155 Structure and Mgmt Information (SMIv1)	RFC 3815 MPLS LDP MIB
	RFC 1157 SNMPv1/v2c	RFC 3826 AES for SNMP's USM MIB
	RFC 1305 NTPv3	RFC 4133 Entity MIB (Version 3)
	RFC 1945 Hypertext Transfer Protocol -- HTTP/1.0	LLDP-EXT-DOT1-MIB
	RFC 2452 MIB for TCP6	LLDP-EXT-DOT3-MIB
	RFC 2454 MIB for UDP6	LLDP-MIB
	RFC 2573 (SNMPv3 Applications)	
	RFC 2578-2580 SMIv2	
		<b>MPLS</b>
		RFC 2205 Resource ReSerVation Protocol (RSVP)
		- Version 1 Functional Specification
		RFC 2209 Resource ReSerVation Protocol (RSVP)

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RFC 2579 (SMIPv2 Text Conventions)  
 RFC 2580 (SMIPv2 Conformance)  
 RFC 2819 (RMON groups Alarm, Event, History and Statistics only)  
 RFC 2819 RMON  
 RFC 3417 (SNMP Transport Mappings)  
 SNMP v3 and RMON RFC support  
 SSHv1/SSHv2 Secure Shell  
 TACACS/TACACS+

### General protocols

IEEE 802.1ad Q-in-Q  
 IEEE 802.1ag Service Layer OAM  
 IEEE 802.1ah Provider Backbone Bridges  
 IEEE 802.1D MAC Bridges  
 IEEE 802.1p Priority  
 IEEE 802.1Q VLANs  
 IEEE 802.1s Multiple Spanning Trees  
 IEEE 802.1v VLAN classification by Protocol and Port  
 IEEE 802.1w Rapid Reconfiguration of Spanning Tree  
 IEEE 802.1X PAE  
 IEEE 802.3ab 1000BASE-T  
 IEEE 802.3ad Link Aggregation (LAG)  
 IEEE 802.3ae 10-Gigabit Ethernet  
 IEEE 802.3ah Ethernet in First Mile over Point to Point Fiber – EFMF  
 IEEE 802.3ba 40 and 100 Gigabit Ethernet Architecture  
 IEEE 802.3i 10BASE-T  
 IEEE 802.3u 100BASE-X  
 IEEE 802.3x Flow Control  
 IEEE 802.3z 1000BASE-X  
 RFC 768 UDP  
 RFC 783 TFTP Protocol (revision 2)  
 RFC 791 IP  
 RFC 792 ICMP  
 RFC 793 TCP  
 RFC 826 ARP  
 RFC 854 TELNET  
 RFC 868 Time Protocol  
 RFC 903 RARP  
 RFC 951 BOOTP  
 RFC 959 File Transfer Protocol (FTP)  
 RFC 1027 Proxy ARP  
 RFC 1042 IP Datagrams  
 RFC 1350 TFTP Protocol (revision 2)  
 RFC 1519 CIDR  
 RFC 1542 BOOTP Extensions  
 RFC 1812 IPv4 Routing  
 RFC 2131 DHCP  
 RFC 2338 VRRP  
 RFC 2784 Generic Routing Encapsulation (GRE)  
 RFC 2865 Remote Authentication Dial In User

RFC 2702 Requirements for Traffic Engineering Over MPLS  
 RFC 2858 Multiprotocol Extensions for BGP-4  
 RFC 3031 Multiprotocol Label Switching Architecture  
 RFC 3032 MPLS Label Stack Encoding  
 RFC 3036 LDP Specification  
 RFC 3107 Carrying Label Information in BGP-4  
 RFC 3209 RSVP-TE: Extensions to RSVP for LSP Tunnels  
 RFC 3479 Fault Tolerance for the Label Distribution Protocol (LDP)  
 RFC 3487 Graceful Restart Mechanism for LDP  
 RFC 4090 Fast Reroute Extensions to RSVP-TE for LSP Tunnels  
 RFC 4364 BGP/MPLS IP Virtual Private Networks (VPNs)  
 RFC 4379 Detecting Multi-Protocol Label Switched (MPLS) Data Plane Failures  
 RFC 4447 Pseudowire Setup and Maintenance Using LDP  
 RFC 4448 Encapsulation Methods for Transport of Ethernet over MPLS Networks  
 RFC 4664 Framework for Layer 2 Virtual Private Networks  
 RFC 4665 Service Requirements for Layer 2 Provider Provisioned Virtual Private Networks  
 RFC 4761 Virtual Private LAN Service (VPLS) Using BGP for Auto-Discovery and Signaling  
 RFC 4762 Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling

### Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)  
 IEEE 802.1D (STP)  
 RFC 1155 Structure of Management Information  
 RFC 1157 SNMPv1  
 RFC 1215 SNMP Generic traps  
 RFC 1757 RMON 4 groups: Stats, History, Alarms and Events  
 RFC 1905 SNMPv2 Protocol Operations  
 RFC 2211 Controlled-Load Network  
 RFC 2272 SNMPv3 Management Protocol  
 RFC 2273 SNMPv3 Applications  
 RFC 2274 USM for SNMPv3  
 RFC 2571 SNMP Management Frameworks  
 RFC 2572 SNMPv3 Message Processing  
 RFC 2573 SNMPv3 Applications  
 RFC 2576 Coexistence between SNMP versions  
 RFC 2578 SMIPv2  
 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)  
 RFC 3164 BSD syslog Protocol  
 RFC 3415 SNMPv3 View-based Access Control Model VACM)

## Technical Specifications

Service (RADIUS)

### IP multicast

RFC 1112 IGMP  
 RFC 2236 IGMPv2  
 RFC 2283 Multiprotocol Extensions for BGP-4  
 RFC 2362 PIM Sparse Mode  
 RFC 2934 Protocol Independent Multicast MIB for IPv4  
 RFC 3376 IGMPv3  
 RFC 3618 Multicast Source Discovery Protocol (MSDP)  
 RFC 4601 PIM Sparse Mode

### IPv6

RFC 1350 TFTP  
 RFC 1981 IPv6 Path MTU Discovery  
 RFC 2080 RIPng for IPv6  
 RFC 2460 IPv6 Specification  
 RFC 2461 IPv6 Neighbor Discovery  
 RFC 2462 IPv6 Stateless Address Auto-configuration  
 RFC 2463 ICMPv6  
 RFC 2473 Generic Packet Tunneling in IPv6  
 RFC 2475 IPv6 DiffServ Architecture  
 RFC 2529 Transmission of IPv6 Packets over IPv4  
 RFC 2710 Multicast Listener Discovery (MLD) for IPv6  
 RFC 2740 OSPFv3 for IPv6  
 RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers  
 RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)  
 RFC 3315 DHCPv6 (client only)  
 RFC 3484 Default Address Selection for IPv6  
 RFC 3513 IPv6 Addressing Architecture  
 RFC 3587 IPv6 Global Unicast Address Format  
 RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6  
 RFC 4251 SSHv6 Architecture  
 RFC 4252 SSHv6 Authentication  
 RFC 4253 SSHv6 Transport Layer  
 RFC 4254 SSHv6 Connection  
 RFC 4541 IGMP & MLD Snooping Switch  
 RFC 4862 IPv6 Stateless Address Auto-configuration

### MIBS

IEEE8023-LAG-MIB  
 RFC 1213 MIB II  
 RFC 1229 Interface MIB Extensions  
 RFC 1286 Bridge MIB  
 RFC 1493 Bridge MIB  
 RFC 1573 SNMP MIB II  
 RFC 1643 Ethernet MIB

ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)  
 SNMPv1/v2c/v3

### OSPF

RFC 1245 OSPF protocol analysis  
 RFC 1246 Experience with OSPF  
 RFC 1587 OSPF NSSA  
 RFC 1765 OSPF Database Overflow  
 RFC 1850 OSPFv2 Management Information Base (MIB), traps  
 RFC 2328 OSPFv2  
 RFC 2370 OSPF Opaque LSA Option  
 RFC 3101 OSPF NSSA  
 RFC 3623 Graceful OSPF Restart

### QoS/CoS

IEEE 802.1p (CoS)  
 RFC 2212 Guaranteed Quality of Service  
 RFC 2474 DS Field in the IPv4 and IPv6 Headers  
 RFC 2475 DiffServ Architecture  
 RFC 2597 DiffServ Assured Forwarding (AF)  
 RFC 2598 DiffServ Expedited Forwarding (EF)  
 RFC 2697 A Single Rate Three Color Marker  
 RFC 2698 A Two Rate Three Color Marker  
 Bi-directional Rate Shaping

### Security

IEEE 802.1AE MAC Security Standard (MACSec)  
 IEEE 802.1X Port Based Network Access Control  
 RFC 1321 The MD5 Message-Digest Algorithm  
 RFC 2082 RIP-2 MD5 Authentication  
 RFC 2104 Keyed-Hashing for Message Authentication  
 RFC 2716 PPP EAP TLS Authentication Protocol  
 RFC 2865 RADIUS Authentication  
 RFC 2866 RADIUS Accounting  
 RFC 2867 RADIUS Accounting Modifications for Tunnel Protocol Support  
 RFC 2868 RADIUS Attributes for Tunnel Protocol Support  
 RFC 2869 RADIUS Extensions  
 RFC 3567 Intermediate System (IS) to IS Cryptographic Authentication  
 Access Control Lists (ACLs)  
 Guest VLAN for 802.1X  
 MAC Authentication  
 SSHv2 Secure Shell  
 Web Authentication

### IKEv1

RFC 2865 - Remote Authentication Dial In User Service (RADIUS)

## Technical Specifications

RFC 1657 BGP-4 MIB  
RFC 1724 RIPv2 MIB  
RFC 1757 Remote Network Monitoring MIB  
RFC 1850 OSPFv2 MIB  
RFC 2011 SNMPv2 MIB for IP  
RFC 2012 SNMPv2 MIB for TCP  
RFC 2013 SNMPv2 MIB for UDP  
RFC 2021 RMONv2 MIB  
RFC 2096 IP Forwarding Table MIB  
RFC 2233 Interfaces MIB  
RFC 2273 SNMP-NOTIFICATION-MIB  
RFC 2452 IPV6-TCP-MIB  
RFC 2454 IPV6-UDP-MIB  
RFC 2465 IPv6 MIB

## Accessories

### HPE FlexFabric 12500 Switch Series accessories

#### Modules

HPE FlexFabric 12500E Main Processing Unit	JG802A
HP 12500 MPU w/Comware V7 OS	JG497A
HP 12500 Main Processing Unit	JC072B
HPE FlexFabric 12500 4-port 100GbE CFP FD Module	JG786A
HPE FlexFabric 12500 4-port 100GbE CFP FG Module	JG788A
HPE FlexFabric 12500 16-port 40GbE QSFP+ FD Module	JG790A
HPE FlexFabric 12500 48-port 1/10GbE SFP+ FD Module	JG796A
HPE FlexFabric 12500 40-port 1/10GbE SFP+ FD Module	JG792A
HPE FlexFabric 12500 40-port 1/10GbE SFP+ FG Module	JG794A
HP 12500 16-port 10GbE SFP+ LEB Module	JC782A
HP 12500 16-port 10GbE SFP+ LEC Module	JC783A
HP 12500 32-port 10GbE SFP+ REB Module	JC064B
HP 12500 32-port 10GbE SFP+ REC Module	JC476B
HP 12500 8-port 10GbE SFP+ LEB Module	JC780A
HP 12500 8-port 10GbE SFP+ LEC Module	JC781A
HP 12500 8-port 10GbE SFP+ LEF Module	JC659A
HP 12500 48-port Gig-T LEB Module	JC074B
HPE 12500 48-port Gig-T LEC Module	JC065B
HP 12500 48-port GbE SFP LEB Module	JC075B
HPE 12500 48-port GbE SFP LEC Module	JC069B
HPE 12500 48-port GbE SFP LEF Module	JC660A
HP 12500 Spare Power Monitor Module	JC502A

#### Transceivers

HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X120 1G SFP LC LH100 Transceiver	JD103A
HPE X170 1G SFP LC LH70 1550 Transceiver	JD109A
HPE X170 1G SFP LC LH70 1570 Transceiver	JD110A
HPE X170 1G SFP LC LH70 1590 Transceiver	JD111A
HPE X170 1G SFP LC LH70 1610 Transceiver	JD112A
HPE X170 1G SFP LC LH70 1510 Transceiver	JD115A
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver	JD107A
HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
HPE X130 10G XFP LC SR Transceiver	JD117B
HPE X135 10G XFP LC ER Transceiver	JD121A
HPE X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver	JG226A
HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver	JG227A
HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver	JG230A

## Accessories

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HP X150 100G CFP LC LR4 10km SM Transceiver	JG829A

### Cables

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A

### Mounting Kit

HPE X421 Chassis Universal 4-post Rackmount Kit	JC665A
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### Memory

HPE FlexFabric 4GB Compact Flash Card	JG806A
HPE FlexFabric 4GB DDR3 SDRAM Memory	JG807A
HPE X600 1G Compact Flash Card	JC684A

### HPE 12504 AC Switch Chassis (JC654A)

HPE 1250x G2 Fabric Module	JC658A
HPE 12500 AC Power Entry Module	JF426A
HPE 12500 2000W AC Power Supply	JF429A
HPE 12504 Fan Assembly	JC664A

### HPE 12504 DC Switch Chassis (JC655A)

HPE 1250x G2 Fabric Module	JC658A
HPE X210 10m JG Connector to Bare 6AWG 37800 Watt 72V DC Power Cable	JG280A
HPE 12500 1800W DC Power Supply	JC651A
HPE 12504 Fan Assembly	JC664A

### HP 12508 AC Switch Chassis (JF431C)

HPE 1250x G2 Fabric Module	JC658A
HP 12508 Top and Bottom Cable Guides for AC Powered Switch	JC785A
HP 12500 Side Cable Management Guide	JC084A
HPE 12500 2000W AC Power Supply	JF429A
HPE 12500 AC Power Entry Module	JF426A
HP 12508 Fan Assembly	JC081A
HP 12508 Optional Air Filter	JC082A

### HP 12508 DC Switch Chassis (JC652A)

HP 12508 Fabric Module	JC067B
HPE 1250x G2 Fabric Module	JC658A
HP 12508 Top and Bottom Cable Guides for DC Powered Switch	JC787A
HP 12500 Side Cable Management Guide	JC084A

## Accessories

HPE X210 10m JG Connector to Bare 6AWG 37800 Watt 72V DC Power Cable	JG280A
HPE 12500 1800W DC Power Supply	JC651A
HP 12508 Fan Assembly	JC081A
HP 12508 Optional Air Filter	JC082A
<b>HP 12518 AC Switch Chassis (JF430C)</b>	
HP 12518 G2 Fabric Module	JC657A
HP 12518 Fabric Module	JC066A
HP 12518 Top and Bottom Cable Guides for AC Powered Switch	JC786A
HP 12500 Side Cable Management Guide	JC084A
HPE 12500 2000W AC Power Supply	JF429A
HPE 12500 AC Power Entry Module	JF426A
HP 12518 Fan Assembly	JC080A
HP 12518 Optional Air Filter	JC083A
<b>HP 12518 DC Switch Chassis (JC653A)</b>	
HP 12518 G2 Fabric Module	JC657A
HP 12518 Fabric Module	JC066A
HP 12518 Top and Bottom Cable Guides for DC Powered Switch	JC788A
HP 12500 Side Cable Management Guide	JC084A
HPE X210 10m JG Connector to Bare 6AWG 37800 Watt 72V DC Power Cable	JG280A
HPE 12500 1800W DC Power Supply	JC651A
HP 12518 Fan Assembly	JC080A
HP 12518 Optional Air Filter	JC083A
<b>HPE FlexFabric 12508E AC Switch Chassis (JG782A)</b>	
HPE FlexFabric 12508E Fabric Module	JG798A
HPE FlexFabric 12508E Optional Extended Cable Guide for AC Powered Switch	JG830A
HPE FlexFabric 12508E Optional Extended Cable Guide for DC Powered Switch	JG832A
HPE 12500 2000W AC Power Supply	JF429A
HPE FlexFabric 12500E Spare Power Monitor Module	JG804A
HPE FlexFabric 12500E Fan Tray Assembly	JG805A
HPE FlexFabric 12508E Optional Air Filter	JG808A
<b>HPE FlexFabric 12508E DC Switch Chassis (JG783A)</b>	
HPE FlexFabric 12508E Fabric Module	JG798A
HP 12508 Top and Bottom Cable Guides for DC Powered Switch	JC787A
HP 12500 Side Cable Management Guide	JC084A
HPE X210 10m JG Connector to Bare 6AWG 37800 Watt 72V DC Power Cable	JG280A
HPE FlexFabric 12508E Optional Extended Cable Guide for DC Powered Switch	JG832A
HPE 12500 1800W DC Power Supply	JC651A
HPE FlexFabric 12500E Spare Power Monitor Module	JG804A
HPE FlexFabric 12500E Fan Tray Assembly	JG805A
HPE FlexFabric 12508E Optional Air Filter	JG808A
<b>HPE FlexFabric 12518E AC Switch Chassis (JG784A)</b>	
HPE FlexFabric 12518E Fabric Module	JG800A
HP 12518 Top and Bottom Cable Guides for AC Powered Switch	JC786A
HP 12500 Side Cable Management Guide	JC084A
HPE FlexFabric 12518E Optional Extended Cable Guide for AC Powered Switch	JG831A
HPE 12500 2000W AC Power Supply	JF429A
HPE 12500 AC Power Entry Module	JF426A
HPE FlexFabric 12500E Spare Power Monitor Module	JG804A
HPE FlexFabric 12500E Fan Tray Assembly	JG805A
HPE FlexFabric 12518E Optional Air Filter	JG809A

## Accessories

### HPE FlexFabric 12518E DC Switch Chassis (JG785A)

HPE FlexFabric 12518E Fabric Module	JG800A
HP 12518 Top and Bottom Cable Guides for DC Powered Switch	JC788A
HP 12500 Side Cable Management Guide	JC084A
HPE X210 10m JG Connector to Bare 6AWG 37800 Watt 72V DC Power Cable	JG280A
HPE FlexFabric 12518E Optional Extended Cable Guide for DC Powered Switch	JG833A
HPE 12500 1800W DC Power Supply	JC651A
HPE FlexFabric 12500E Spare Power Monitor Module	JG804A
HPE FlexFabric 12500E Fan Tray Assembly	JG805A
HPE FlexFabric 12518E Optional Air Filter	JG809A



## Accessory Product Details

**NOTE:** Details are not available for all accessories. The following specifications were available at the time of publication.

### Modules

<b>HPE FlexFabric 12500 4-port 100GbE CFP FG Module</b> (JG788A)	<b>I/O ports and slots</b>	4 CFP 100GbE ports
	<b>Physical characteristics</b>	<b>Dimensions</b> 15.75(w) x 18.39(d) x 1.57(h) in (40.0 x 46.7 x 4.0 cm) <b>Weight</b> 13.12 lb (5.95 kg)
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

<b>HPE FlexFabric 12500 4-port 100GbE CFP FD Module</b> (JG786A)	<b>I/O ports and slots</b>	4 CFP 100GbE ports
	<b>Physical characteristics</b>	<b>Dimensions</b> 15.75(w) x 18.39(d) x 1.57(h) in (40.0 x 46.7 x 4.0 cm) <b>Weight</b> 12.68 lb (5.75 kg)
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

<b>HP 12500 48-port Gig-T LEB Module</b> (JC074B)		48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	<b>Physical characteristics</b>	<b>Dimensions</b> 18.39(d) x 15.75(w) x 1.57(h) in. (46.7 x 40 x 4 cm) <b>Weight</b> 9.37 lb. (4.25 kg)
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

<b>HPE 12500 48-port Gig-T LEC Module</b> (JC065B)		48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	<b>Physical characteristics</b>	<b>Dimensions</b> 18.39(d) x 15.75(w) x 1.57(h) in. (46.7 x 40 x 4 cm) <b>Weight</b> 9.79 lb. (4.44 kg)
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

## Accessory Product Details

<b>HP 12500 48-port GbE SFP LEB Module</b> (JC075B)	<b>Ports</b>	48 SFP 100/1000 Mbps ports
	<b>Physical characteristics</b>	<b>Dimensions</b> 18.39(d) x 15.75(w) x 1.57(h) in. (46.7 x 40 x 4 cm)
	<b>Services</b>	<b>Weight</b> 9.96 lb. (4.52 kg) Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

<b>HPE 12500 48-port GbE SFP LEC Module</b> (JC069B)	<b>Ports</b>	48 SFP 100/1000 Mbps ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	<b>Physical characteristics</b>	<b>Dimensions</b> 18.39(d) x 15.75(w) x 1.57(h) in. (46.7 x 40 x 4 cm)
	<b>Services</b>	<b>Weight</b> 10.03 lb. (4.55 kg) Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

<b>HP 12500 32-port 10GbE SFP+ REB Module</b> (JC064B)	<b>Ports</b>	32 SFP+ 10-GbE ports Duplex: full only
	<b>Physical characteristics</b>	<b>Dimensions</b> 18.39(d) x 15.75(w) x 1.57(h) in. (46.7 x 40 x 4 cm)
	<b>Services</b>	<b>Weight</b> 13.45 lb. (6.10 kg) Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

## Transceivers

<b>HPE X125 1G SFP LC LH40 1310nm Transceiver</b> (JD061A)  A small form-factor pluggable SFP Gigabit LH40 transceiver that provides a full duplex Gigabit solution up to 40km on a single-mode fiber.	<b>Ports</b>	1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)
	<b>Connectivity</b>	Connector type LC Wavelength 1310 nm
	<b>Physical characteristics</b>	Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) Full configuration weight 0.04 lb. (0.02 kg)
	<b>Electrical characteristics</b>	Power consumption typical 0.8 W Power consumption maximum 1.0 W
	<b>Cabling</b>	Cable type: Single-mode fiber optic, complying with ITU-T G.652;  Maximum distance: <ul style="list-style-type: none"><li>• 40km distance</li></ul> Fiber type Single Mode

## Accessory Product Details

<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
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<b>HPE X120 1G SFP LC LH40 1550nm Transceiver</b> (JD062A)	<b>Ports</b>	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)
	<b>Connectivity</b>	Connector type LC Wavelength 1550 nm
A small form-factor pluggable (SFP) Gigabit LH40 transceiver that provides a full-duplex Gigabit solution up to 40 km on a single mode fiber.	<b>Physical characteristics</b>	Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) Full configuration weight 0.04 lb. (0.02 kg)
	<b>Electrical characteristics</b>	Power consumption typical 0.8 W Power consumption maximum 1.0 W
<b>Cabling</b>	Cable type: Single-mode fiber optic, complying with ITU-T G.652;	Maximum distance: <ul style="list-style-type: none"> <li>• 40km distance</li> </ul>

<b>Services</b>	Fiber type Single Mode Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
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<b>HPE X125 1G SFP LC LH70 Transceiver</b> (JD063B)	<b>Ports</b>	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)
	<b>Connectivity</b>	<b>Connector type</b> LC <b>Wavelength</b> 1550 nm
A small form-factor pluggable (SFP) Gigabit LH70 transceiver that provides a full-duplex Gigabit solution up to 70km on a single-mode fiber.	<b>Physical characteristics</b>	<b>Dimensions</b> 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) <b>Full configuration weight</b> 0.04 lb. (0.02 kg)
	<b>Electrical characteristics</b>	<b>Power consumption typical</b> 0.8 W <b>Power consumption maximum</b> 1.0 W
<b>Cabling</b>	Cable type: Single-mode fiber optic, complying with ITU-T G.652;	Maximum distance: <ul style="list-style-type: none"> <li>• 70km</li> </ul>

<b>Services</b>	Fiber type Single Mode Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
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## Accessory Product Details

<b>HPE X120 1G SFP RJ45 T Transceiver</b> (JD089B)	<b>Ports</b>	1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T)	
	<b>Connectivity</b>	<b>Connector type</b>	RJ-45
A small form factor pluggable (SFP) Gigabit 1000Base-T transceiver that provides a full duplex Gigabit solution up to 100m on a Cat-5+ cable.	<b>Physical characteristics</b>	<b>Dimensions</b>	2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm)
	<b>Electrical characteristics</b>	<b>Full configuration weight</b>	0.07 lb. (0.03 kg)
	<b>Cabling</b>	<b>Power consumption typical</b>	0.8 W
		<b>Power consumption maximum</b>	1.0 W
		Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 Ω differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;	
		Maximum distance: • 100m	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office		

<b>HPE X120 1G SFP LC BX 10-U Transceiver</b> (JD098B)	<b>Ports</b>	1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-U); Duplex: full only	
	<b>Connectivity</b>	<b>Connector type</b>	LC
A small form-factor pluggable (SFP) Gigabit LX-BX10-U transceiver that provides a full duplex Gigabit solution up to 10km on a single mode cable.	<b>Physical characteristics</b>	<b>Dimensions</b>	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
	<b>Electrical characteristics</b>	<b>Full configuration weight</b>	0.04 lb. (0.02 kg)
	<b>Cabling</b>	<b>Power consumption typical</b>	0.8 W
		<b>Power consumption maximum</b>	1.0 W
		Maximum distance: • 10km	
		Fiber type	Single Mode
<b>Notes</b>	TX 1310nm RX 1490nm		
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office		

<b>HPE X120 1G SFP LC BX 10-D Transceiver</b> (JD099B)	<b>Ports</b>	1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-D); Duplex: full only	
	<b>Connectivity</b>	<b>Connector type</b>	LC
A small form-factor pluggable (SFP) Gigabit LX-BX10-D transceiver that provides a full duplex Gigabit solution up to 10km on a single mode	<b>Physical characteristics</b>	<b>Dimensions</b>	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
	<b>Electrical characteristics</b>	<b>Full configuration weight</b>	0.04 lb. (0.02 kg)
		<b>Power consumption typical</b>	0.8 W
		<b>Power consumption maximum</b>	1.0 W

## Accessory Product Details

cable.		<b>maximum</b>	
	<b>Cabling</b>	Maximum distance:	
		• Up to 10km	
		Fiber type	Single Mode
	<b>Notes</b>	TX 1490nm RX 1310nm	
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	
<b>HPE X120 1G SFP LC LH100 Transceiver</b> (JD103A)	<b>Ports</b>	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)	
	<b>Connectivity</b>	<b>Connector type</b>	LC
		<b>Wavelength</b>	1550 nm
	<b>Electrical characteristics</b>	<b>Power consumption typical</b>	0.8 W
		<b>Power consumption maximum</b>	1.0 W
A small form factor pluggable (SFP) Gigabit LH100 transceiver that provides a full-duplex Gigabit solution up to 100km on a single mode fiber.	<b>Cabling</b>	Cable type:	Single-mode fiber optic, complying with ITU-T G.652;
		Maximum distance:	
		• Up to 100km	
		Fiber type	Single Mode
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	
<b>HPE X120 1G SFP LC SX Transceiver</b> (JD118B)	<b>Ports</b>	1 LC 1000BASE-SX port	
	<b>Connectivity</b>	<b>Connector type</b>	LC
		<b>Wavelength</b>	850 nm
	<b>Physical characteristics</b>	<b>Dimensions</b>	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
		<b>Full configuration weight</b>	0.04 lb. (0.02 kg)
	<b>Electrical characteristics</b>	<b>Power consumption typical</b>	0.8 W
		<b>Power consumption maximum</b>	1.0 W
A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550m on a Multimode fiber.	<b>Cabling</b>	Maximum distance:	
		• FDDI Grade distance = 220m	
		• OM1 = 275m	
		• OM2 = 500m	
		• OM3 = Not Specified by standard	
		Cable length	up to 550m
		Fiber type	Multi Mode
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level	

## Accessory Product Details

descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

<b>HPE X120 1G SFP LC LX Transceiver</b> (JD119B)  A small form-factor pluggable (SFP) Gigabit LX transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km on SMF	<b>Ports</b>	1 SFP 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX)		
	<b>Connectivity</b>	<b>Connector type</b>	LC	
	<b>Physical characteristics</b>	<b>Wavelength</b>	1300 nm	
		<b>Dimensions</b>	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
		<b>Full configuration weight</b>	0.04 lb. (0.02 kg)	
	<b>Electrical characteristics</b>	<b>Power consumption typical</b>	0.8 W	
		<b>Power consumption maximum</b>	1.0 W	
	<b>Cabling</b>	Cable type: Either single mode or multimode;  Maximum distance: <ul style="list-style-type: none"> <li>• 550m for Multimode</li> <li>• 10km for Singlemode</li> </ul>		
	<b>Services</b>	Fiber type <span style="float: right;">Both</span>		
		Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office		

## Cables

<b>HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable</b> (QK732A)	<b>Notes</b>	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.	
	<b>Services</b>	<ul style="list-style-type: none"> <li>• Core Diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um</li> <li>• Bandwidth: 3000 MHz-km @ 850nm (Laser)</li> <li>• Jacket Color: Blue</li> <li>• Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic</li> <li>• Boot Color: White</li> <li>• Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.</li> <li>• Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths &gt;30m</li> <li>• Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45</li> </ul> Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	

## Accessory Product Details

### HPE Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 2m Cable (QK733A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um  $\pm$ 3um, Cladding diameter: 125um  $\pm$ 2um; Coating diameter: 245  $\pm$  10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

#### Services

Refer to the Hewlett Packard Enterprise website at:

<http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HPE Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 5m Cable (QK734A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um  $\pm$ 3um, Cladding diameter: 125um  $\pm$ 2um; Coating diameter: 245  $\pm$  10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

#### Services

Refer to the Hewlett Packard Enterprise website at:

<http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HPE Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 15m Cable (QK735A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um  $\pm$ 3um, Cladding diameter: 125um  $\pm$ 2um; Coating diameter: 245  $\pm$  10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)

## Accessory Product Details

- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths > 30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

### Services

Refer to the Hewlett Packard Enterprise website at:

<http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

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### HPE Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 30m Cable (QK736A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths > 30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

### Services

Refer to the Hewlett Packard Enterprise website at:

<http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

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### HPE Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 50m Cable (QK737A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.



## Accessory Product Details

	<b>Services</b>	<ul style="list-style-type: none"> <li>• Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths &gt;30m</li> <li>• Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45</li> </ul> <p>Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office</p>
<b>HP 12500 MPU w/Comware V7 OS (JG497A)</b>	<b>Physical characteristics</b>	
	<b>Dimensions</b>	23.2(w) x 30.7(d) x 11.2(h) in (58.93 x 77.98 x 28.45 cm)
		<b>Weight</b>
	<b>Services</b>	<p>Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office</p>

## Summary of Changes

Date	Version History	Action	Description of Change
18-Apr-2017	From Version 38 to 39	Added	Transceivers added on the Configuration section: JL437A, JL438A, JL439A
17-Feb-2017	From Version 37 to 38	Changed	Configuration section updated: Removing Defaults in Remarks sections
01-Aug-2016	From Version 36 to 37	Changed	Configuration section was completely revised including the addition of the #AC3 Option
06-June-2016	From Version 35 to 36	Changed	Document name changed to HPE FlexFabric 12500 Switch Series. Product description updated.
22-Apr-2016	From Version 34 to 35	Changed	SKU descriptions updated on the entire document
18-Mar-2016	From Version 33 to 34	Changed	Changes made on Configuration section and Product images
16-Feb-2016	From Version 32 to 33	Added	SKU added: JL251A
		Changed	Accessories and Technical Specifications updated
8-Jan-2016	From Version 31 to 32	Changed	Warranty and Support updated
2-Oct-2015	From Version 30 to 31	Changed	Models list added on Overview
21-Aug-2015	From Version 29 to 30	Changed	Configuration Menu updated
30-Mar-2015	From Version 28 to 29	Added	Transceiver added: JG915A
		Changed	Changes made on the entire QuickSpecs
20-Jan-2015	From Version 27 to 28	Changed	Minor changes made on Technical Specifications
15-Jan-2015	From Version 26 to 27	Changed	Minor changes made on Technical Specifications
13-Aug-2014	From Version 25 to 26	Changed	General protocols and Security updated on Technical Specifications
3-Jul-2014	From Version 23 to 25	Changed	Configuration menu updated.
12-May-2014	From Version 22 to 23	Added	Added two new modules to the Accessories section.
14-Apr-2014	From Version 21 to 22	Changed	Configuration was revised.
31-Mar-2014	From Version 20 to 21	Changed	Configuration was revised.
16-Jan-2014	From Version 19 to 20	Changed	Corrected the descriptions of the images.
12-Nov-2013	From Version 18 to 19	Changed	Notes were revised in Configuration.
18-Oct-2013	From Version 17 to 18	Changed	Configuration was revised.
30-Sep-2013	From Version 16 to 17	Added	HPE 12504 DC Switch Chassis, HPE 125008 DC Switch Chassis, HPE 12518 AC Switch Chassis, HPE 12500 8-port 10GbE XFP LEC Module, HPE 12500 20Gbps VPN Fire Module were added to Configuration
15-Jul-2013	From Version 14 to 16	Changed	Corrected the new Configuration section.
10-Jun-2013	From Version 13 to 14	Added	OM4 cables were added, as well as mounting kit information in the Configuration section.

## Summary of Changes

19-Mar-2013	From Version 12 to 13	Changed	Corrected the new Configuration section.
1-Mar-2013	From Version 11 to 12	Changed	Corrected the formatting in the new Configuration section.
19-Feb-2013	From Version 10 to 11	Added	Added the Configuration section, as well as several images.
4-Dec-2012	From Version 9 to 10	Changed	Significant changes were made to the first half of Features and Benefits. The model specifications had minor updates, as did the Accessories section.
2-Nov-2012	From Version 8 to 9	Changed	Updated Jumbo frames in Features and Benefits.
24-Sep-2012	From Version 7 to 8	Changed	Updated Features and Benefits, Introduction, the specifications, and Accessories.
26-Mar-2012	From Version 6 to 7	Changed	The Accessories and specifications sections were updated.
13-Feb-2012	From Version 5 to 6	Added	Some new modules were added.
		Changed	The model numbers were updated, as well as the part numbers for some of the modules.
14-Nov-2011	From Version 4 to 5	Changed	Changes were made throughout, including changing the title.
7-Sep-2011	From Version 3 to 4	Added	Jumps were added to the Accessory Product Details.
30-Aug-2011	From Version 2 to 3	Added	Added the Accessories Product Details section.
15-Mar-2011	From Version 1 to 2	Changed	Accessories was revised.

## Summary of Changes



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