QuickSpecs

Overview

HPE FlexNetwork 7500 Switch Series

Product overview

The HPE FlexNetwork 7500 Switch Series comprises modular, multilayer chassis switches that meet the evolving needs of integrated services networks. The switches can be deployed in multiple network environments, including the enterprise LAN core, aggregation layer, and wiring closet edge.

They offer 40GbE connectivity and cost-effective, wire-speed 10GbE ports to safeguard the throughput and bandwidth needed for your mission-critical data and high-speed communications. A passive backplane, support for load sharing, and redundant management and fabrics help the switch series provide high availability.

Moreover, these switches deliver wire-speed Layer 2 and Layer 3 routing services for the most demanding applications with hardware-based IPv4 and IPv6 support.









Models

HPE FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle

HPE FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle

HPE FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle

HPE FlexNetwork 7510 Switch Chassis

HPE FlexNetwork 7506 Switch Chassis

HPE FlexNetwork 7503 Switch Chassis

HPE FlexNetwork 7503 Switch Chassis

JD240C

HPE FlexNetwork 7502 Switch Chassis

JD242C

Key features

- Versatile, high-performance modular switches
- Enterprise LAN core, aggregation, and edge
- Extensive switching and routing, IPv6, and multiprotocol label switching (MPLS)
- Advanced functionality with service modules
- Robust network and service virtualization



Features and benefits

Quality of Service (QoS)

• IEEE 802.1p prioritization

delivers data to devices based on the priority and type of traffic

• Class of Service (CoS)

sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ

• Bandwidth shaping

Port-based rate limiting

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

Classifier-based rate limiting

uses an access control list (ACL) to enforce increased bandwidth for ingress traffic on each port

Reduced bandwidth

provides per-port, per-queue egress-based reduced bandwidth

Weighted random early detection (WRED)/random early detection (RED)

delivers congestion avoidance capabilities through the use of gueue management algorithms

Powerful QoS feature

supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), and WRED

Traffic policing

supports Committed Access Rate (CAR) and line rate

Intrusion detection/prevention system (IDS/IPS)

Deep packet inspection

module supports deep packet inspection and examines the packet payload as well as the frame and packet headers; packets are dropped if attacks or intrusions are detected using signature-based or protocol anomaly-based detection

Signature-based detection

detects attacks that have known attack patterns; IPS maintains a signature database that contains the pattern definitions for known attacks that can be updated automatically using a subscription service

Protocol anomaly-based detection

detects attacks that use anomalies in application protocol payloads

• Severity-based action policies

involve action taken against attacks based on their severity; available actions are "allow," "block," and "terminate connection" to provide appropriate mitigation

• Signature update service

provides regular updates to the signature database, helping to ensure that the latest available signatures are installed

Virtual private network (VPN)

IPSec

provides secure tunneling over an untrusted network such as the Internet or a wireless network; offers data confidentiality, authenticity, and integrity between two network endpoints

• Generic Routing Encapsulation (GRE)

transports Layer 2 connectivity over a Layer 3 path in a secured way; enables the segregation of traffic from site to site

Manual or automatic Internet Key Exchange (IKE)

provides both manual or automatic key exchange required for the algorithms used in encryption or authentication; auto-IKE allows automated management of the public key exchange, providing the highest levels of encryption

Virtual Extensible LAN (VXLAN)

delivers network virtualization, enabling IP-based networks to support many VLAN overlays for use as a private collaboration network, or a single, end-to-end VLAN for WiFi. Requires Comware v7 with specific hardware only. Refer to

the hardware manuals for details.

Management

• Management interface control

provides management access through a modem port and terminal interface, as well as in-band and out-of-band Ethernet ports; provides access through terminal interface. Telnet, or secure shell (SSH)

Industry-standard CLI with a hierarchical structure

reduces training time and expenses, and increases productivity in multivendor installations

Management security

restricts access to critical configuration commands; offers multiple privilege levels with password protection; ACLs provide Telnet and SNMP access; local and remote syslog capabilities allow logging of all access

SNMPv1, v2, and v3

provide complete support of SNMP; provide full support of industry-standard Management Information Base (MIB) plus private extensions; SNMPv3 supports increased security using encryption

• sFlow (RFC 3176)

provides scalable ASIC-based wirespeed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes

Remote monitoring (RMON)

uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group

• FTP, TFTP, and SFTP support

offers different mechanisms for configuration updates; FTP allows bidirectional transfers over a TCP/IP network; trivial FTP (TFTP) is a simpler method using User Datagram Protocol (UDP); Secure File Transfer Protocol (SFTP) runs over an SSH tunnel to provide additional security

Debug and sampler utility

supports ping and traceroute for both IPv4 and IPv6

Network Time Protocol (NTP)

synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time

Network Quality Analyzer (NQA)

analyzes network performance and service quality by sending test packets, and provides network performance and service quality parameters such as jitter, TCP, or FTP connection delays and file transfer rates; allows a network manager to determine overall network performance and to diagnose and locate network congestion points or failures

• Information center

provides a central repository for system and network information; aggregates all logs, traps, and debugging information generated by the system and maintains them in order of severity; outputs the network information to multiple channels based on user-defined rules

• IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications

Dual flash images

provides independent primary and secondary operating system files for backup while upgrading

• Multiple configuration files

stores easily to the flash image

Connectivity

High-density port connectivity

Provides up to 10 interface module slots and up to 40 40GbE ports, 84 10GbE ports, 480 Fiber Gigabit ports, or 480 PoE-enabled ports per HPE 7500 Switch Series system

• Jumbo frames

Allow high-performance remote backup and disaster-recovery systems with up to 9,216 bytes

• Loopback

supports internal loopback testing for maintenance purposes and an increase in availability; loopback detection protects against incorrect cabling or network configurations and can be enabled on a per-port or per-VLAN basis for added flexibility

• Ethernet operations, administration and maintenance (OAM)

detects data link layer problems that occurred in the "last mile" using the IEEE 802.3ah OAM standard; monitors the status of the link between two devices

Flexible port selection

Includes 100/1000BASE-X auto speed selection, 10/100/1000BASE-T auto speed detection, as well as auto duplex and MDI/MDI-X

Monitor link

collects statistics on performance and errors on physical links, increasing system availability

• IEEE 802.3af Power over Ethernet (PoE)

provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras

• Dual-personality functionality

includes four 10/100/1000 ports or SFP slots for optional fiber connectivity such as Gigabit-SX, -LX, and -LH, or 100-FX

Packet storm protection

protects against unknown broadcast, unknown multicast, or unicast storms with user-defined thresholds

Flow control

provides back pressure using standard IEEE 802.3x, reducing congestion in heavy traffic situations

• IEEE 802.3at Power over Ethernet (PoE+) support

provides up to 30 watts of power at the power sourcing equipment (PSE)

Performance

High-speed fully distributed architecture

Supports a maximum of 4,160 Gb/s switching capacity, providing enhanced performance and future expansion capability; delivers up to 2,380 Mp/s throughput with dual fabrics; performs all switching and routing functions in the I/O modules; and meets the current and future demand of an enterprise's bandwidth-intensive applications

Scalable system design

Provides investment protection to support future technologies and higher-speed connectivity with a backplane designed to accommodate bandwidth increases

• Flexible chassis selection

Enables you to tailor your product selections to your budget with a choice of six chassis, ranging from a 10-slot to a 2-slot chassis

Resiliency and high availability

Redundant/load-sharing fabrics, management, fan assemblies, and power supplies

increase total performance and power availability while providing hitless, stateful failover

All hot-swappable modules

Allows replacement of modules without any impact on other modules

• Dual internal power supply

provides high reliability

• Separate data and control paths

separates control from services and keeps service processing isolated; increases security and performance

Passive design system

delivers increased system reliability as the backplane has no active components

• IEEE 802.3ad link-aggregation control protocol (LACP)

Supports up to 128 trunks, each with 8 links per trunk; and provides support for static or dynamic groups and a user-selectable hashing algorithm

• 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

IRF capability

provides single IP address management for a resilient virtual switching fabric of up to four switches

• Ring resiliency protection protocol (RRPP)

Provides standard sub-100 ms recovery for a ring Ethernet-based topology

• Virtual Router Redundancy Protocol (VRRP)

allows a group of routers to dynamically back each other up to create highly available routed environments

Graceful restart

supports graceful restart for OSPF, IS-IS, BGP, LDP, and RSVP; the network remains stable during the active-standby switchover; after the switchover, the device quickly learns the network routes by communicating with adjacent routers; forwarding remains uninterrupted during the switchover to achieve nonstop forwarding (NSF)

Ultrafast protocol convergence with standards-based failure detection—bidirectional forwarding detection
 Enables link connectivity monitoring and reduces network convergence time for the routing information protocol (RIP), OSPF, BGP, IS-IS, VRRP, MPLS, and IRF

Smart link

allows 50 ms failover between links

IP/LDP FRR

nodes are configured with backup ports, routes, and LSPs; local implementation requires no cooperation of adjacent devices, simplifying the deployment; solves the traditional convergence faults in IP forwarding and MPLS forwarding, protecting the links, nodes, and paths without establishing respective backup LSPs for them; realizes restoration within 50 ms, with the restoration time independent of the number of routes and fast link switchovers, without route convergence

• In-Service Software Upgrade (ISSU)

applies patches and new service features to be installed without restarting the system, increasing network uptime and simplifying maintenance. Requires use of IRF, and R7169P01 or later releases.

Layer 2 switching

VLAN

Supports up to 4,096 port-based or IEEE 802.1Q-based VLANs; and supports MAC-based VLANs, protocol-based VLANs, and

IP-subnet-based VLANs for added flexibility

Port isolation

increases security by isolating ports within a VLAN while still allowing them to communicate with other VLANs

• Bridge Protocol Data Unit (BPDU) tunneling

transmits Spanning Tree Protocol BPDUs transparently, allowing correct tree calculations across service providers, WANs, or MANs

• GARP VLAN Registration Protocol

allows automatic learning and dynamic assignment of VLANs

Port mirroring

Duplicates port traffic (ingress and egress) to a local or remote monitoring port; and supports four mirroring groups, with an unlimited number of ports per group

• Spanning Tree Protocol (STP)

supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

• Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping controls and manages the flooding of multicast packets in a Layer 2 network

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

• IEEE 802.1ad QinQ and selective QinQ

increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network

Super VLAN

Saves IP address space, using RFC 3069 standard (also called VLAN aggregation)

• Per-VLAN Spanning Tree Plus (PVST+)

allows each VLAN to build a separate spanning tree to improve link bandwidth usage in network environments with multiple VLANs

Layer 3 services

Address Resolution Protocol (ARP)

determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 etwork

• User Datagram Protocol (UDP) helper

redirects UDP broadcasts to specific IP subnets to prevent server spoofing

• Dynamic Host Configuration Protocol (DHCP)

simplifies the management of large IP networks and supports client and server; DHCP Relay enables DHCP operation across subnets

• Domain Name System (DNS)

provides a distributed database that translates domain names and IP addresses, which simplifies network design; supports client and server

Layer 3 routing

Static IPv4 routing

provides simple manually configured IPv4 routing

Routing Information Protocol (RIP)

uses a distance vector algorithm with UDP packets for route determination; supports RIPv1 and RIPv2 routing; includes loop protection

• Open shortest path first (OSPF)

delivers faster convergence; uses this link-state routing Interior Gateway Protocol (IGP), which supports ECMP, NSSA, and MD5 authentication for increased security and graceful restart for faster failure recovery

• Intermediate system to intermediate system (IS-IS)

uses a path vector Interior Gateway Protocol (IGP), which is defined by the ISO organization for IS-IS routing and extended by IETF RFC 1195 to operate in both TCP/IP and the OSI reference model (Integrated IS-IS)

• Border Gateway Protocol 4 (BGP-4)

delivers an implementation of the Exterior Gateway Protocol (EGP) utilizing path vectors; uses TCP for enhanced reliability for the route discovery process; reduces bandwidth consumption by advertising only incremental updates; supports extensive policies for increased flexibility; scales to very large networks

Policy-based routing

makes routing decisions based on policies set by the network administrator

• IP performance optimization

Provides a set of tools to improve the performance of IPv4 networks; and includes directed broadcasts, customization of TCP parameters, support of ICNP error packets, and extensive display capabilities

Unicast Reverse Path Forwarding (uRPF)

limits erroneous or malicious traffic in accordance with RFC 3074

• Static IPv6 routing

provides simple manually configured IPv6 routing

Dual IP stack

maintains separate stacks for IPv4 and IPv6 to ease the transition from an IPv4-only network to an IPv6-only network design

Routing Information Protocol next generation (RIPng)

extends RIPv2 to support IPv6 addressing

OSPFv3

provides OSPF support for IPv6

IS-IS for IPv6

extends IS-IS to support IPv6 addressing

• BGP+

extends BGP-4 to support Multiprotocol BGP (MBGP), including support for IPv6 addressing

IPv6 tunneling

allows IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet; supports manually configured, 6to4, and Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) tunnels; is an important element for the transition from IPv4 to IPv6

Multiprotocol Label Switching (MPLS)

uses BGP to advertise routes across Label Switched Paths (LSPs), but uses simple labels to forward packets from any Layer 2 or Layer 3 protocol, which reduces complexity and increases performance; supports graceful restart for reduced failure impact; supports LSP tunneling and multilevel stacks

Multiprotocol Label Switching (MPLS) Layer 3 VPN

allows Layer 3 VPNs across a provider network; uses MP-BGP to establish private routes for increased security; supports RFC 2547bis multiple autonomous system VPNs for added flexibility

Multiprotocol Label Switching (MPLS) Layer 2 VPN

establishes simple Layer 2 point-to-point VPNs across a provider network using only MPLS Label Distribution Protocol (LDP); requires no routing and therefore decreases complexity, increases performance, and allows VPNs of non-routable protocols; uses no routing information for increased security; supports Circuit Cross Connect (CCC), Static Virtual Circuits (SVCs), Martini draft, and Kompella-draft technologies

Virtual Private LAN Service (VPLS)

establishes point-to-multipoint Layer 2 VPNs across a provider network

• Service loopback

allows any module to take advantage of higher-featured modules, including OAA modules, by redirecting traffic; reduces investment and enables higher bandwidth and load sharing; supports IPv6, IPv6 multicast, tunneling, and MPLS

Security

Access control list (ACL)

supports powerful ACLs for both IPv4 and IPv6; ACLs are used for filtering traffic to prevent unauthorized users from accessing the network, or for controlling network traffic to save resources; rules can either deny or permit traffic to be forwarded; rules can be based on a Layer 2 header or a Layer 3 protocol header; rules can be set to operate on specific dates or times

• Remote Authentication Dial-In User Service (RADIUS)

eases switch security access administration by using a password authentication server

• Terminal Access Controller Access-Control System (TACACS+)

delivers an authentication tool using TCP with encryption of the full authentication request, providing additional security

Switch management logon security

helps secure switch CLI logon by optionally requiring either RADIUS or TACACS+ authentication

Secure shell (SSHv2)

uses external servers to securely log in to a remote device; with authentication and encryption, it protects against IP spoofing and plain-text password interception; increases the security of Secure FTP (SFTP) transfers

DHCP snooping

enables DHCP clients to receive IP addresses from authorized DHCP servers and maintains a list of DHCP entries for trusted ports; prevents users from receiving fake IP addresses and reduces ARP attacks, improving security

IP source guard

filters packets on a per-port basis to prevent illegal packets from being forwarded

• ARP attack protection

protects from attacks using a large number of ARP requests with a host-specific, user-selectable threshold

Port security

allows access only to specified MAC addresses, which can be learned or specified by the administrator

• IEEE 802.1X support

provides port-based user authentication with support for Extensible Authentication Protocol (EAP) MD5, TLS, TTLS, and PEAP with choice of AES, TKIP, and static or dynamic WEP encryption for protecting wireless traffic between authenticated clients and the access point

• Media access control (MAC) authentication

provides simple authentication based on a user's MAC address; supports local or RADIUS-based authentication

• Multiple user authentication methods

- IEEE 802.1X

uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards

Web-based authentication

provides a browser-based environment, similar to IEEE 802.1X, to authenticate clients that do not support the IEEE 802.1X supplicant

MAC-based authentication

authenticates the client with the RADIUS server based on the client's MAC address

• DHCP protection

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

• Endpoint Admission Defense (EAD)

provides security policies to users accessing a network

• Port isolation

secures and adds privacy, and prevents malicious attackers from obtaining user information

IEEE 802.1AE MACsec

provides switch-to-host with IEEE 802.1X or switch-to-switch hardware encryption, and authentication. Requires Comware v7 with specific hardware only. Refer to the hardware manuals for details.

Convergence

LLDP-MED (Media Endpoint Discovery)

defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones

Multicast Source Discovery Protocol (MSDP)

allows multiple PIM-SM domains to interoperate; is used for inter-domain multicast applications

• Internet Group Management Protocol (IGMP)

utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks; supports IGMPv1, v2, and v3

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 Border Gateway Protocol (MBGP)

allows multicast traffic to be forwarded across BGP networks and kept separate from unicast traffic

Multicast Listener Discovery (MLD) protocol

establishes, maintains, and manages IPv6 multicast groups and networks; supports v1 and v2 and utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM)

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

Voice VLAN

automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance

Integration

Open Application Architecture (OAA)

provides high-performance application-specific modules fully integrated with the switching architecture; uses the chassis high-speed backplane to access network-related data; increases performance, reduces costs, and simplifies network management

• VPN 20 Gb/s firewall module

Provides enhanced stateful packet inspection and filtering; supports flexible security zones and virtual firewall containment; offers advanced VPN services with 3DES and AES encryption at high performance and low latency; facilitates Web content filtering; and enables application prioritization and optimization

Software-defined networking

OpenFlow 1.3

enables SDN to provide an end-to-end solution to automate the network, allowing for rapid application deployments (Comware v7 only)

Additional information

• Green initiative support

provides support for RoHS and WEEE regulations

Low power-consumption switch

Is rated among the switches with the lowest power consumption in the industry by Miercom independent tests

Unified Hewlett Packard Enterprise Comware operating system with modular architecture

provides an easy-to-enhance-and-extend feature set, which doesn't require whole-scale changes; all switching, routing, and security platforms leverage the Comware OS, a common unified modular operating system

OPEX savings

simplifies and streamlines deployment, management, and training through the use of a common operating system, thereby cutting costs as well as reducing the risk of human errors associated with having to manage multiple operating systems across different platforms and network layers

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

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 FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle JH331A See Configuration Must select min 1 Power Supply **NOTE:**1. 2. 3 2 - JH209A included min=0 \ max=8 SFP/SFP + Transceivers Min=0 \ Max = 2 QSFP Transceiver 10U - Height HPE FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle JH332A See Configuration Must select min 1 Power Supply **NOTE:**1, 2, 3 2 - JH209A included min=0 \ max=8 SFP/SFP + Transceivers Min=0 \ Max = 2 QSFP Transceiver 13U - Height HPE FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle JH333A See Configuration Must select min 1 Power Supply **NOTE:**1, 2, 3 2 - JH209A included min=0 \ max=8 SFP or SFP + Transceivers Min=0 \ Max = 2 QSFP Transceiver 16U - Height JD242C HPE FlexNetwork 7502 Switch Chassis Must select min 1 Power Supply Must select Min 1 Fabric Module 4U - Height HPE FlexNetwork 7503 Switch Chassis JD240C Must select min 1 Power Supply Must select Min 1 Fabric Module 4U - Height HPE FlexNetwork 7506 Switch Chassis JD239C Must select min 1 Power Supply Must select Min 1 Fabric Module 13U - Height HPE FlexNetwork 7510 Switch Chassis JD238C

Configuration Rules:

16U - Height

Must select min 1 Power Supply
Must select Min 1 Fabric 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 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
HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A

Note 2 The following 40G Transceivers install into this Module: (Use BTO only when adding to switch)

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
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A

Note 3 The following Transceivers install into this Module: (Use BTO only when adding to switch)

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 FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
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

Remarks: BTO Model 1s should never receive an OD1 and therefore cannot be factory integrated into a

rack.

Box Level Integration CTO Models

CTO Solution Sku

HPE 75xx Configure-to-order Switch Solution

JG707A

JD242C

JD240C

JD239C

SSP trigger sku

CTO Base Sku

HPE FlexNetwork 7502 Switch Chassis

Must select min 1 Power Supply See Configuration **NOTE:**2, 3 Must select Min 1 Fabric Module

4U - Height

HPE FlexNetwork 7503 Switch Chassis

See Configuration Must select min 1 Power Supply **NOTE:**1, 3, 4 Must select Min 1 Fabric Module

10U - Height

HPE FlexNetwork 7506 Switch Chassis

See Configuration Must select min 1 Power Supply **NOTE:**1, 3, 4 Must select Min 1 Fabric Module

13U - Height

HPE FlexNetwork 7510 Switch Chassis

JD238C See Configuration Must select min 1 Power Supply **NOTE:**3, 4 Must select Min 1 Fabric Module

16U - Height

Configuration Rules:

Note 1 If this Switch Chassis is selected at least one of these Power Supplies is required: (Use #0D1 if switch is CTO)

> JH215A HPE FlexNetwork 7503/7506/7506 V 650W AC Power Supply Unit

Note 2 If this Switch Chassis is selected at least one of these Power Supplies is required: (Use #0D1 if switch is CTO)

> HPE FlexNetwork 7502 300W AC Power Supply JD226A HPE FlexNetwork 7500 650W DC Power Supply JD209A HPE FlexNetwork 7500 650W AC Power Supply JD217A

Note 3 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 JG707A - HPE 75xx Configure-to-order Switch Solution. (Min 1/Max 1 Switch per SSP)

Note 4 If this Switch Chassis is selected at least one of these Power Supplies is required: (Use #0D1 if switch is CTO)

> HPE FlexNetwork 7500 1400W DC Power Supply JD208A HPE FlexNetwork 7500 1400W AC Power Supply JD218A HPE FlexNetwork 7500 2800W AC Power Supply JD219A HPE FlexNetwork 7500 6000W AC Power Supply JD227A

Rack Level Integration CTO Models

JD242C See Configuration

NOTE:1. 3

JD240C See Configuration

NOTE:2, 3, 4

JD239C See Configuration

NOTE:2, 3, 4

JD238C

See Configuration NOTE:2, 3, 4

Configuration

- Must select min 1 Power Supply
- Must select Min 1 Fabric Module
- 4U Height

HPE FlexNetwork 7503 Switch Chassis

- Must select min 1 Power Supply
- Must select Min 1 Fabric Module
- 10U Height

HPE FlexNetwork 7506 Switch Chassis

- Must select min 1 Power Supply
- Must select Min 1 Fabric Module
- 13U Height

HPE FlexNetwork 7510 Switch Chassis

- Must select min 1 Power Supply
- Must select Min 1 Fabric Module
- 16U Height

Configuration Rules:

Note 1 If this Switch Chassis is selected at least one of these Power Supplies is required: (Use #0D1 if switch is CTO)

HPE FlexNetwork 7502 300W AC Power Supply	JD226A
HPE FlexNetwork 7500 650W DC Power Supply	JD209A
HPE FlexNetwork 7500 650W AC Power Supply	JD217A

Note 2 If this Switch Chassis is selected at least one of these Power Supplies is required: (Use #0D1 if switch is CTO)

HPE FlexNetwork 7503/7506/7506 V 650W AC Power Supply Unit JH215A

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 and BW968A HPE Universal Rack Only. (Default to the BW966A.)

Note 4 If this Switch Chassis is selected at least one of these Power Supplies is required: (Use #0D1 if switch is CTO)

HPE FlexNetwork 7500 1400W DC Power Supply	JD208A
HPE FlexNetwork 7500 1400W AC Power Supply	JD218A
HPE FlexNetwork 7500 2800W AC Power Supply	JD219A
HPE FlexNetwork 7500 6000W AC Power Supply	JD227A

Modules

Fabric Modules

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

JH333A JH332A, and JH331A only System (std 2 // max 2) User Selection (min 0 // max 0) per enclosure

• m	Network 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU nin=0 \ max=8 SFP/SFP + Transceivers 1in=0 \ Max = 2 QSFP Transceiver	JH209A See Configuration NOTE:5, 15, 16, 17, 18
	Network 7502 Main Processing Unit Io supported Transceivers	JH208A See Configuration NOTE:14
	Network 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit 40 Max = 2 QSFP Transceiver	JH207A See Configuration NOTE:15, 16
	Network 7500 384Gbps Fabric Module with 2 XFP Ports nin=0 \ max=2 XFP Transceivers	JD193B See Configuration NOTE:1, 4
	Network 7500 384Gbps Fabric Module Io supported Transceivers	JD194B See Configuration NOTE:1
	Network 7500 384Gbps Fabric Module with 12 SFP Ports nin=0 \ max=12 SFP Transceivers	JD224A See Configuration NOTE: 1, 5
	Network 7500 384Gbps Advanced Fabric Module Io supported Transceivers	JD195A See Configuration NOTE:1
	Network 7500 768Gbps Fabric Module Io supported Transceivers	JD220A See Configuration NOTE:11
Configura	tion Rules:	
Note 1	These Modules install to the following switches: (Use #0D1 if switch is CTO) HPE FlexNetwork 7506 Switch Chassis HPE FlexNetwork 7503 Switch Chassis	JD239C JD240C
Note 4	The following Transceivers install into this Module: (Use #0D1 if switch is CTO) HPE X135 10G XFP LC ER Transceiver HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver HPE X130 10G XFP LC SR Transceiver HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver HPE X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver HP X180 10G XFP LC LH 80km 1540.56nm DWDM Transceiver HP X180 10G XFP LC LH 80km 1542.14nm DWDM Transceiver HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver	JD121A JD108B JD117B JD107A JG226A JG227A JG228A JG229A JG230A

Con	figur	ation

Configuration		
	HP X180 10G XFP LC LH 80km 1558.98nm DWDM Transceiver	JG231A
	HP X180 10G XFP LC LH 80km 1559.79nm DWDM Transceiver	JG232A
	HP X180 10G XFP LC LH 80km 1560.61nm DWDM Transceiver	JG233A
Note 5	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	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 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
	HPE X110 100M SFP LC LH40 Transceiver	JD090A
	HPE X110 100M SFP LC LH80 Transceiver	JD091A
	HPE X115 100M SFP LC FX Transceiver	JD102B
	HPE X110 100M SFP LC LX Transceiver	JD120B
	HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
	HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
Note 11	These Modules install to the following switches only: (Use #0D1 if switch is CTO)	
	HPE FlexNetwork 7510 Switch Chassis	JD238C
Note 12	If 2 Fabric Modules are selected they must be the same Sku number.	
Note 13	The following PoE DIMM installs into this Module: (Use #0D1 if switch is CTO)	
Note 14	These Modules install to the following switches: (Use #0D1 if switch is CTO)	
NOIC 14	HPE FlexNetwork 7502 Switch Chassis	JD242C
	THE FIEXING WORK 7502 SWITCH CHISSIS	JD242C
Note 15	These Modules install to the following switches only: (Use #0D1 if switch is CTO)	
	HPE FlexNetwork 7503 Switch Chassis	JD240C
	HPE FlexNetwork 7506 Switch Chassis	JD239C
	HPE FlexNetwork 7510 Switch Chassis	JD238C
Note 16	The following 40G Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)	
	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
	HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
	HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
	HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A

HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A

Note 17 The following Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)

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+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
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

Note 18 The following LC Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)

HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A

Remark: For Switch A7503,A7506 and A7506-V, these modules can only be inserted into the Slot 0 and Slot 1. And for Switch A7510, this module can only be inserted into the Slot 5 and Slot 6.

For Switch A7503-S, this module can only be inserted into the Slot 0.

Ethernet Modules

(Switch JD242C) System (std 0 // max 2) User Selection (min 0 // max 2) per enclosure (Switch JD240C and JH331A) System (std 0 // max 3) User Selection (min 0 // max 3) per enclosure (Switch JD239C and JH331A) System (std 0 // max 6) User Selection (min 0 // max 6) per enclosure (Switch JD238C and JH331A) System (std 0 // max 10) User Selection (min 0 // max 10) per enclosure

HPE FlexNetwork 7500 24-	-port GbE SFP SC Module

•	min=0 \ max=24 SFP Transceivers	See Configuration
		NOTE:1 18 10

HPE FlexNetwork 7500 12-port GbE SFP SC Module

•	min=0 \ max=12 SFP Transceivers	See Configuration
		NOTE: 1, 18, 19

HPE FlexNetwork 7500 48-port GbE SFP Enhanced Module

	•	
•	min=0 \ max=48 SFP Transceivers	See Configuration
		NOTE:1 16 10 20

HPE FlexNetwork 7500 40-port Gig-T/8-port SFP PoE-upgradable SC Module

•	min=0 \ max= 8 SFP Transceivers	See Configuration
		NOTE: 1, 8, 14, 17,
		18, 19

JD203B

JD207A

JD221A

JD228B

See Configuration min=0 \ max=24 SFP Transceivers **NOTE:** 1, 16, 19, 20 HPE FlexNetwork 7500 24-port GbE SFP with 8 Combo SD Module JD234A See Configuration 16 SFP 100/1000 Mbps ports **NOTE:** 1, 16, 19, 20 8 dual-personality ports - 1000M Combo ports (SFP or RJ-45) min=0 \ max=24 SFP Transceivers HPE FlexNetwork 7500 48-port GbE SFP SD Module JD237A See Configuration min=0 \ max=48 SFP Transceivers **NOTE:** 1, 16, 19, 20 HPE FlexNetwork 7500 48-port GbE SFP SC Module JD211B See Configuration min=0 \ max=48 SFP Transceivers NOTE: 1, 18, 19 HPE FlexNetwork 7500 20-port Gig-T/4-port GbE Combo PoE-upgradable SC Module JC669A See Configuration min=0 \ max= 4 SFP Transceivers **NOTE:** 1, 12, 17, 18, 19 HPE FlexNetwork 7500 8-port 10G SFP+ SC Module JF290A See Configuration min=0 \ max=8 per SFP+ Transceivers **NOTE:** 3, 16, 19, 20 HPE FlexNetwork 7500 4-port 10GbE XFP Enhanced Module JD232A min=0 \ max=4 XFP See Configuration **NOTE:** 4, 16, 19, 20 HPE FlexNetwork 7500 2-port 10GbE XFP Enhanced Module JD233A See Configuration min=0 \ max=2 XFP **NOTE:** 4, 16, 19, 20 HP FlexNetwork 7500 8-port 10GbE XFP SD Module JD191A See Configuration min=0 \ max=8 XFP Transceivers **NOTE:** 4, 16, 19, 20 HPE FlexNetwork 7500 2-port 10GbE XFP SC Module JD201A See Configuration min=0 \ max=2 XFP Transceivers NOTE: 4, 18, 19 HPE FlexNetwork 7500 24-port Gig-T/2-port 10GbE XFP SC Module JD206A See Configuration min=0 \ max=2 XFP Transceivers NOTE: 4, 18, 19

HPE FlexNetwork 7500 2-port 10GbE XFP SD Module

HPE FlexNetwork 7500 4-port 10GbE XFP SD Module

min=0 \ max=4 XFP Transceivers

min=0 \ max=2 XFP Transceivers

JD236A See Configuration

JD235A See Configuration

NOTE:4, 16, 19, 20

HPE FlexNetwork 7500 4-port 40GbE QSFP+ SC Module

min=0 \ max=4 QSFP+ Transceivers

NOTE: 4, 16, 19, 20 HPE FlexNetwork 7500 24-port GbE SFP/2-port 10GbE XFP Module JD205A min=0 \ max=2 XFP min=0 \ max=24 SFP Transceivers See Configuration **NOTE:** 5, 18, 19 JD230A HPE FlexNetwork 7500 24-port GbE SFP with 8 Combo and 2-port 10GbE XFP SD Module See Configuration 16 SFP 100/1000 Mbps ports **NOTE:** 4, 5, 16, 19, 8 dual-personality ports - 1000M Combo ports (SFP or RJ-45) 20 2 XFP 10GbE ports min=0 \ max=2 XFP min=0 \ max=24 SFP Transceivers HPE FlexNetwork 7500 24-port Gig-T SC Module JD204B See Configuration No supported Transceivers **NOTE: 18, 19** HPE FlexNetwork 7500 48-port Gig-T PoE-ready SC Module JD210A See Configuration No supported Transceivers **NOTE:** 8, 14, 18, 19 HPE FlexNetwork 7500 48-port Gig-T PoE+ SD Module JD229B See Configuration Includes DIMM NOTE: 16, 17, 19, 20 HPE FlexNetwork 7500 48-port 1000BASE-T PoE+ SC Module JG663A See Configuration No supported Transceivers NOTE: 16, 17, 19, 20 HPE FlexNetwork 7500 Load Balancing Module JD252A See Configuration No supported Transceivers **NOTE: 18, 19** HP 10500/7500 NetStream Monitoring Module JD254A No supported Transceivers See Configuration **NOTE: 18, 19** JD199B HP 7500 48-port Gig-T PoE-ready Module See Configuration No supported Transceivers **NOTE:** 7, 8, 14, 17, 18.19 HPE 10500/11900/7500 20Gbps VPN Firewall Module JG372A See Configuration min=0 \ max=2 SFP Transceivers **NOTE:** 13, 16, 19

JC792A

See Configuration

NOTE:10, 16, 19

HP 7500 4-port 40GbE CFP SC Module JG373A min=0 \ max=4 CFP Transceivers See Configuration **NOTE:** 11, 18, 19 HP 10500/7500 20G Unified Wired-WLAN Module JG639A See Configuration NOTE: 15, 16, 19 HPE FlexNetwork 7500 44-port SFP/4-port SFP+ SE Module JH210A See Configuration min=0 \ max=48 SFP Transceivers or **NOTE:**1, 3, 16, 20 min=0 \ max=4 SFP+ Transceivers or min=0 \ max=48 JD102B HPE FlexNetwork 7500 24-port SFP/4-port SFP+ SE Module JH211A min=0 \ max=24 SFP Transceivers or See Configuration **NOTE:**1, 3, 16, 20 min=0 \ max=4 SFP+ Transceivers or min=0 \ max=28 JD102B HPE FlexNetwork 7500 48-port 1000BASE-T SE Module JH212A See Configuration No supported Transceivers **NOTE:**16, 20 JH213A HPE FlexNetwork 7500 48-port 1000BASE-T with PoE+ SE Module See Configuration No supported Transceivers NOTE:16, 17, 20 HPE FlexNetwork 7500 16-port 1/10GbE SFP+ SF Module JH214A min=0 \ max=16 SFP Transceivers or See Configuration **NOTE:**1, 3, 16, 20 min=0 \ max=16 SFP+ Transceivers or JH309A HPE FlexNetwork 7500 12-port 1/10GbE SFP+ EC Module See Configuration min=0 \ max=12 SFP Transceivers or **NOTE:**1, 3, 16, 20 min=0 \ max=12 SFP+ Transceivers or **Configuration Rules:** The following Transceivers install into this Module: (Use #0D1 if switch is CTO) Note 1

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 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

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	HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
	HPE X110 100M SFP LC LH40 Transceiver	JD090A
	HPE X110 100M SFP LC LH80 Transceiver	JD091A
	HPE X115 100M SFP LC FX Transceiver	JD102B
	HPE X110 100M SFP LC LX Transceiver	JD102B JD120B
	HPE X115 100M SFP LC BX 10-U Transceiver	JD120B JD100A
	HPE X115 100M SFP LC BX 10-0 Transceiver	JD100A JD101A
	HE XII2 TOOM 255 FC BX 10-D LIGHSCEINEL	JDIOIA
Note 2	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	HPE X110 100M SFP LC LH40 Transceiver	JD090A
	HPE X110 100M SFP LC LH80 Transceiver	JD091A
	HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
	HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
	HPE X115 100M SFP LC FX Transceiver	JD102B
	HPE X110 100M SFP LC LX Transceiver	JD120B
Note 3	The following Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)	
	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 FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
	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
	The President Azaro 100 311 - 311 - All Direct Attach copper cable	307040
Note 4	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	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
	HP X180 10G XFP LC LH 80km 1540.56nm DWDM Transceiver	JG228A
	HP X180 10G XFP LC LH 80km 1542.14nm DWDM Transceiver	JG229A
	HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver	JG230A
	HP X180 10G XFP LC LH 80km 1558.98nm DWDM Transceiver	JG231A
	HP X180 10G XFP LC LH 80km 1559.79nm DWDM Transceiver	JG232A
	HP X180 10G XFP LC LH 80km 1560.61nm DWDM Transceiver	JG233A
	7.1. 7.1.00 1.00 7.1. 1.00 1.1. 1.00 1.1. 1.1.	302007.
Note 5	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	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 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
HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
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

Note 6 The following Transceivers install into this Module: (Use #0D1 if switch is CTO)

JD109A
JD110A
JD111A
JD112A
JD115A
JD103A
JD061A
JD062A
JD063B
JD089B
JD118B
JD119B
JD098B
JD099B
JD100A
JD101A

Note 7 This Module is not supported on the JD242x at this time.

Note 8 The following DIMMs install into this Module: (Use #0D1 if switch is CTO)

HPE FlexNetwork 7500 PoE DIMM Memory Module JD192B

Note 10 The following 40G Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)

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
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A

Note 11 The following CFP Transceivers install into this Module:

HPE X140 40G CFP LC LR4 10km SM Transceiver JC857A

Note 13	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	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 14	The following PoE DIMM installs into this Module: (Use #0D1 if switch is CTO)	
	HPE FlexNetwork 7500 PoE DIMM Memory Module	JD192B
Note 16	Selecting this module requires one of the following:	
	HPE FlexNetwork 7503 Switch Chassis	JD240C
	HPE FlexNetwork 7506 Switch Chassis	JD239C
	HPE FlexNetwork 7510 Switch Chassis	JD238C
	HPE FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH331A
	HPE FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH332A
	HPE FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH333A
Note 17	If JD242C and JH208a is selected, Then this Module is not allowed.	
Note 18	This Module is not supported with the following MPU's:	
	HPE FlexNetwork 7502 Main Processing Unit	JH208A
	HPE FlexNetwork 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit	JH207A
	HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU	JH209A
Note 19	If this module is selected, then the following Comware V5 MPU's are compatible:	
	HPE FlexNetwork 7500 384Gbps Fabric Module with 2 XFP Ports	JD193B
	HPE FlexNetwork 7500 384Gbps TAA-compliant Fabric/MPU with 2 10GbE XFP Ports	JC699A
	HPE FlexNetwork 7500 384Gbps Fabric Module	JD194B
	HPE FlexNetwork 7500 384Gbps Fabric Module with 12 SFP Ports	JD224A
	HPE FlexNetwork 7500 384Gbps Advanced Fabric Module	JD195A
	HPE FlexNetwork 7500 384Gbps TAA-compliant Fabric/Main Processing Unit	JC700A
	HPE FlexNetwork 7500 768Gbps Fabric Module	JD220A
	HPE FlexNetwork 7500 768Gbps TAA-compliant Fabric/Main Processing Unit	JC701A
Note 20	If this module is selected, then the following Comware V7 MPU's are compatible:	
	HPE FlexNetwork 7502 Main Processing Unit	JH208A
	HPE FlexNetwork 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit	JH207A
	HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU	JH209A
Remark:	JG639A and JG645A - Additional AP licenses available below in the 'Switch Enclosure Options category.	ı

System (std 0 // max 1) User Selection (min 0 // max 1) per Ethernet or Fabric Module

HPE FlexNetwork 7500 PoE DIMM Memory Module

JD192B See Configuration NOTE:1, 3, 6

Configuration Rules:

- Note 1 The JD192B is optional when you have selected the JD199B, JD198B, JD210A, JC709A, JC710A or JD228B modules.
- Note 3 If 1 or more of the JD192B (PoE DIMM Module) is ordered than the customer must also order 2 of JD208A, JD218A, JD219A, or JD227A in order to support PoE. (Except for JD242x see rule 6)
- Note 6 This Module is supported on the JD242x only when an External DC Power Source is connected to the rear terminals. (See Installation Guide)

Transceivers

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 ER 40km Transceiver	JG234A
HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
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

SFP Transceivers

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 X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B

Configuration	
HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
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
HP X180 10G XFP LC LH 80km 1540.56nm DWDM Transceiver	JG228A
HP X180 10G XFP LC LH 80km 1542.14nm DWDM Transceiver	JG229A
HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver	JG230A
HP X180 10G XFP LC LH 80km 1558.98nm DWDM Transceiver	JG231A
HP X180 10G XFP LC LH 80km 1559.79nm DWDM Transceiver	JG232A
HP X180 10G XFP LC LH 80km 1560.61nm DWDM Transceiver	JG233A
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
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A

CFP Transceivers

HPE X140 40G CFP LC LR4 10km SM Transceiver

HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable

JC857A

JG331A

Internal Power Supplies

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

HPE FlexNetwork 7502 300W AC Power Supply

• includes 1 x c13, 300w

JD226A See Configuration NOTE:1, 4

PDU Cable NA/MEX/TW/JP

• C15 PDU Jumper Cord (NA/MEX/TW/JP)

JD226A#B2B

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HPE FlexNetwork 7500 6000W AC Power Supply

includes 4 x c19. 6000w

PDU Cable ROW JD226A#B2C • C15 PDU Jumper Cord (ROW) HPE FlexNetwork 7500 650W DC Power Supply JD209A See Configuration NOTE:1 HPE FlexNetwork 7500 650W AC Power Supply JD217A See Configuration includes 1 x c13, 650w **NOTE:**1, 4 JD217A#B2B PDU Cable NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) JD217A#B2C PDU Cable ROW • C15 PDU Jumper Cord (ROW) HPE FlexNetwork 7500 1400W DC Power Supply JD208A See Configuration NOTE:2 HPE FlexNetwork 7500 1400W AC Power Supply JD218A includes 1 x c19, 1400w See Configuration **NOTE:**2, 4 JD218A#B2B PDU Cable NA/MEX/TW/JP • C19 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JD218A#B2C • C19 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord JD218A#B2E NEMA L6-20P Cord (NA/MEX/JP/TW) HPE FlexNetwork 7500 2800W AC Power Supply JD219A includes 2 x c19. 2800w See Configuration **NOTE:**2, 4 PDU Cable NA/MEX/TW/JP JD219A#B2B • C19 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JD219A#B2C • C19 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord JD219A#B2E NEMA L6-20P Cord (NA/MEX/JP/TW)

JD227A See Configuration

NOTE:2.4

PDU Cable NA/MEX/TW/JP JD227A#B2B

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

PDU Cable ROW JD227A#B2C

• C19 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord JD227A#B2E

• NEMA L6-20P Cord (NA/MEX/JP/TW)

HPE FlexNetwork 7503/7506/7506 V 650W AC Power Supply Unit

JH215A

• includes 4 x c19, 6000w See Configuration NOTE:4, 5

PDU Cable NA/MEX/TW/JP

JH215A#B2B

• C19 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW JH215A#B2C

• C19 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

JH215A#B2E

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

Configuration Rules:

Note 1 Only supported on the JD242x.

Note 2 Only supported on the following:

HPE FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH331A
HPE FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH332A
HPE FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH333A
HPE FlexNetwork 7503 Switch Chassis	JD240C
HPE FlexNetwork 7506 Switch Chassis	JD239C
HPE FlexNetwork 7510 Switch Chassis	JD238C

Note 3 If 2 power supplies are selected they must be the same Sku number.

Note 4 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or #B2E (See Localization Many)

#B2E. (See Localization Menu)

REMARK: When Switches/Routers are Factory Racked, Then #B2B, #B2C should be the Defaulted Power Cable option on the Switches/Routers.

Note 5 Only supported on the following:

HPE FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH331A
HPE FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH332A
HPE FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH333A
HPE FlexNetwork 7503 Switch Chassis	JD240C
HPE FlexNetwork 7506 Switch Chassis	JD239C

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

Switch to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C

ROW. (Watson Default B2B or B2C for Rack Level CTO)

Switch 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)

Switch Enclosure Options

Software Licenses

HP Unified Wired-WLAN 128 AP E-LTU JG649AAE (min 0 // max 7)See Configuration REMARK: This license is for use with the Primary Controllers. NOTE:1

JG902AAE HP Unified Wired-WLAN 128 AP Redundant E-LTU (min 0 // max 7)See Configuration REMARK: This license is for use with the Redundant Controllers. NOTE:1

Configuration Rules:

Note 1 Only supported on JG639A and JG645A.

Compact Flash cards

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

HPE X600 1G Compact Flash Card JC684A See Configuration

NOTE:1

HPE X600 512M Compact Flash Card JC685A

> See Configuration NOTE:1

HPE X600 256M Compact Flash Card JC686A

See Configuration

NOTE:1

Configuration Rules:

Note 1 These CF Cards are supported on the following Modules only:

HPE FlexNetwork 7500 384Gbps Fabric Module with 2 XFP Ports	JD193B
HPE FlexNetwork 7500 384Gbps Fabric Module	JD194B
HPE FlexNetwork 7500 768Gbps Fabric Module	JD220A
HPE FlexNetwork 7500 384Gbps Advanced Fabric Module	JD195A
HPE FlexNetwork 7500 384Gbps Fabric Module with 12 SFP Ports	JD224A
HP 7503-S 144Gbps Fabric/MPU with PoE Upgradable 20-port Gig-T/4-port GbE Combo	JC666A
HP 9500 VPN Firewall Module	JD245A

Options for the SSL VPN Service Board Modules (JD253x)

Spare Fan Assembly

HPE FlexNetwork 7502 Spare Fan Assembly JD213A HPE FlexNetwork 7503 Spare Fan Assembly JD212A HPE FlexNetwork 7506 Spare Fan Assembly JD214A JD216A

JD213A - This item is only used to replace the fan module of an 7502. A host is delivered with the fan module.

JD212A - This item is only used to replace the fan module of a 7503. A host is delivered with the fan module.

JD214A - This item is only used to replace the fan module of a 7506. A host is delivered with the fan module.

JD216A - This item is only used to replace the fan module of a 7510. A host is delivered with the fan module.

Opacity Shield Kit

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

HPE FlexNetwork 7510 Spare Fan Assembly

HPE FlexNetwork 7510 Opacity Shield Kit JG565A See Configuration Supported on JD238C

NOTE: 1. 4

HPE FlexNetwork 7506 Opacity Shield Kit JG566A

See Configuration Supported on JD239C **NOTE:**1, 3

HPE FlexNetwork 7503 Opacity Shield Kit

See Configuration Supported on JD240C **NOTE:1.2**

Configuration Rules:

Note 1 If selected with a CTO Switch Solution, Quantity 1 of JG586A#B01 must also be ordered.

Note 2 Only supported on the following:

HPE FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle JH331A HPE FlexNetwork 7503 Switch Chassis JD240C

Note 3 Only supported on the following:

HPE FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle JH332A HPE FlexNetwork 7506 Switch Chassis JD239C

JG568A

Note 4 Only supported on the following:

HPE FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle

JH333A

HPE FlexNetwork 7510 Switch Chassis

JD238C

Tamper Evidence Labels

HPE 12mm x 60mm Tamper Evidence (100) Labels

JG586A See Configuration NOTE:1, 2

Configuration Rules:

Note 1 If selected with a CTO Switch Solution, Quantity 1 of JG565A#B01, JG566A#B01 or

JG568A#B01 must also be ordered.

Note 2 Only supported on the following:

HPE FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH331A
HPE FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH332A
HPE FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle	JH333A
HPE FlexNetwork 7503 Switch Chassis	JD240C
HPE FlexNetwork 7506 Switch Chassis	JD239C
HPE FlexNetwork 7510 Switch Chassis	JD238C

Remarks: Each JG565A, JG566A or JG568A would use 1 of JG586A.

HPE FlexNetwork 7510 Switch Chassis (JD238C)

Included accessories 1 HP 7510 Spare Fan Assembly (JD216A)

I/O ports and slots 10 I/O module slots

Supports a maximum of 480 Gigabit Ethernet ports or 480 autosensing 10/100/1000 ports or 160

1/10GbE ports or 80 10GbE ports or 40 40GbE ports, or a combination

Additional ports and

slots

2 switch fabric slots

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JD216A

1 fan tray slot

Physical characteristics Dimensions $17.17(w) \times 16.54(d) \times 27.87(h)$ in $(43.6 \times 42.0 \times 70.8 \text{ cm})$ (16U height)

Weight 211 lb (95.71 kg) shipping weight

Mounting and enclosure Mounts in an EIA-standard 19 in. rack or other equipment cabinet (hardware included); Horizontal

surface mounting only

Reliability Availability 99.999%

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

10% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 53.5 dB, High-speed fan: 56.7 dB

Electrical characteristics Frequency 50/60 Hz

Voltage 100 - 120 / 200 - 240 VAC, rated

-48 to -60 VDC, rated

(depending on power supply chosen)

 Current
 16/50 A

 Power output
 1400 W

Notes Based on a common power supply of 1400 W (AC/DC)

Safety UL 60950-1; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN

61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR

47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

EN EN 61000-4-2:1995+A1:1998+A2:2001

ESD EN 61000-4-2

Radiated EN 61000-4-3

EFT/Burst EN 61000-4-4

Surge EN 61000-4-5

Conducted EN 61000-4-6

Power frequency IEC 61000-4-8

magnetic field

Voltage dips and EN 61000-4-11

interruptions

EN 61000-3-2, IEC 61000-3-2 Harmonics Flicker EN 61000-3-3, IEC 61000-3-3

Management IMC - Intelligent Management Center; Command-line interface; Web browser; Out-of-band

management (serial RS-232c); SNMP manager; Telnet: Terminal interface (serial RS-232c); Modem

interface; IEEE 802.3 Ethernet mib; Ethernet interface mib

Notes RFCs supported only in Comware v7:

> 1541, 1542, 1981, 2080, 2460, 2464, 2473, 2474, 2545, 2711, 2863, 2868, 3315, 3413, 3416, 3484, 3575, 3736, 3810, 3956, 4123, 4271, 4291, 4292, 4293, 4443, 4552, 460, 4659, 4798, 4861,

4862, 5080, 5095, 5340, 5492, 5905 and 6192

For non-TAA environments, IKE/IPSec functionality is provided by the HPE 7500/10500 20Gbps VPN

Firewall Module (JG372A).

Comware v7 MPUs (JH207A, JH208A and JH209A) only support these LPUs:

 Comware v7 LPUs- JH209A, JH210A, JH211A, JH212A, JH213A, JH214A, and JH309A Comware v5 LPUs- JG663A, JD229B, JD230A, JD234A, JD237A, JD221A, JD231A, JD232A,

JD233A, JD191A, JD235A, JD236A, JF290A, and JC792A

Performance depends on the MPU/Fabric installed, and when installed with two (2) JH209A the performance are as follows: up to 2,380 MPPS for packet performance and 4,160 Gbps for total

switching capacity.

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 FlexNetwork 7506 Switch Chassis (JD239C)

Included accessories 1 HP 7506 Spare Fan Assembly (JD214A)

I/O ports and slots 6 I/O module slots

Supports a maximum of 288 Gigabit Ethernet ports or 288 autosensing 10/100/1000 ports or 96

1/10GbE ports or 48 10GbE ports or 24 40GbE ports, or a combination

Additional ports and

2 switch fabric slots

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JD214A

1 fan tray slot

Dimensions Physical characteristics 17.17(w) x 16.54(d) x 22.64(h) in (43.6 x 42.0 x 57.5 cm) (13U height)

> Weight 207 lb (93.9 kg) shipping weight

Mounting and enclosure Mounts in an EIA-standard 19 in. rack or other equipment cabinet (hardware included); Horizontal

surface mounting only

Reliability **Availability** 99.999%

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

10% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 53.6 dB, High-speed fan: 57.7 dB

50/60 Hz **Electrical characteristics** Frequency

Achieved Miercom Certified Green Award

Description The H3C S7506E (HPE 7606) is Certified Green in the 2009 Miercom

Green Switches Industry Assessment

Voltage 100 - 120 / 200 - 240 VAC, rated

-48 to -60 VDC, rated

(depending on power supply chosen)

 Current
 16/50 A

 Power output
 1400 W

Notes Based on a common power supply of 1400 W (AC/DC)

Safety UL 60950-1; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN

61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR

47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

EN EN 61000-4-2:1995+A1:1998+A2:2001

 ESD
 EN 61000-4-2

 Radiated
 EN 61000-4-3

 EFT/Burst
 EN 61000-4-4

 Surge
 EN 61000-4-5

 Conducted
 EN 61000-4-6

 Power frequency
 IEC 61000-4-8

magnetic field

Voltage dips and EN 61000-4-11

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3, IEC 61000-3-3

Management IMC - Intelligent Management Center; Command-line interface; Web browser; Out-of-band

management (serial RS-232c); SNMP manager; Telnet; Terminal interface (serial RS-232c); Modem

interface; IEEE 802.3 Ethernet mib; Ethernet interface mib

Notes RFCs supported only in Comware v7:

1541, 1542, 1981, 2080, 2460, 2464, 2473, 2474, 2545, 2711, 2863, 2868, 3315, 3413, 3416, 3484, 3575, 3736, 3810, 3956, 4123, 4271, 4291, 4292, 4293, 4443, 4552, 4607, 4659, 4798,

4861, 4862, 5080, 5095, 5340, 5492, 5905 and 6192

For non-TAA environments, IKE/IPSec functionality is provided by the HPE 7500/10500 20Gbps VPN

Firewall Module (JG372A).

Comware v7 MPUs (JH207A, JH208A and JH209A) only support these LPUs:

• Comware v7 LPUs- JH209A, JH210A, JH211A, JH212A JH213A, JH214A, and JH309A

Comware v5 LPUs- JG663A, JD229B, JD230A, JD234A, JD237A, JD221A, JD231A, JD232A,

JD233A, JD191A, JD235A, JD236A, JF290A, and JC792A

Performance depends on the MPU/Fabric installed, and when installed with two (2) JH209A the performance are as follows: up to 1,428 MPPS for packet performance and 2,880 Gbps for total

switching capacity.

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 FlexNetwork 7503 Switch Chassis (JD240C)

Included accessories 1 HP 7503 Spare Fan Assembly (JD212A)

I/O ports and slots 3 I/O module slots

Supports a maximum of 144 Gigabit Ethernet ports or 144 autosensing 10/100/1000 ports or 48

1/10GbE ports or 24 10GbE ports or 12 40GbE ports, or a combination

Additional ports and

slots

2 switch fabric slots

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JD212A

1 fan tray slot

17.17(w) x 16.54(d) x 17.36(h) in (43.6 x 42.0 x 44.1 cm) (10U height) Physical characteristics **Dimensions**

> Weight 147 lb (66.68 kg) shipping weight

Mounting and enclosure Mounts in an EIA-standard 19 in. rack or other equipment cabinet (hardware included); Horizontal

surface mounting only

Reliability Availability 99.999%

Operating temperature **Environment** 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

10% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 51.6 dB, High-speed fan: 56.1 dB

Electrical characteristics Frequency 50/60 Hz

> Voltage 100 - 120 / 200 - 240 VAC, rated

> > -48 to -60 VDC, rated

(depending on power supply chosen)

Current 16/50 A 1400 W Power output

Notes Based on a common power supply of 1400 W (AC/DC)

UL 60950-1; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11 Safety

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN

61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR

47. Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

> ΕN EN 61000-4-2:1995+A1:1998+A2:2001

ESD EN 61000-4-2 Radiated EN 61000-4-3 EFT/Burst EN 61000-4-4 FN 61000-4-5 Surge **Conducted** EN 61000-4-6 IEC 61000-4-8 Power frequency

magnetic field

EN 61000-4-11 Voltage dips and

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3, IEC 61000-3-3

IMC - Intelligent Management Center; Command-line interface; Web browser; Out-of-band Management

management (serial RS-232c); SNMP manager; Telnet; Terminal interface (serial RS-232c); Modem

interface; IEEE 802.3 Ethernet mib; Ethernet interface mib

Notes RFCs supported only in Comware v7:

1541, 1542, 1981, 2080, 2460, 2464, 2473, 2474, 2545, 2711, 2863, 2868, 3315, 3413, 3416, 3484, 3575, 3736, 3810, 3956, 4123, 4271, 4291, 4292, 4293, 4443, 4552, 4607, 4659, 4798,

4861, 4862, 5080, 5095, 5340, 5492, 5905 and 6192

For non-TAA environments, IKE/IPSec functionality is provided by the HPE 7500/10500 20Gbps VPN

Firewall Module (JG372A).

Comware v7 MPUs (JH207A, JH208A and JH209A) only support these LPUs:

• Comware v7 LPUs- JH209A, JH210A, JH211A, JH212A, JH213A, JH214A, and JH309A

• Comware v5 LPUs- JG663A, JD229B, JD230A, JD234A, JD237A, JD221A, JD231A, JD232A,

JD233A, JD191A, JD235A, JD236A, JF290A, and JC792A

Performance depends on the MPU/Fabric installed, and when installed with two (2) JH209A the performance are as follows: up to 714 MPPS for packet performance and 1,920 Gbps for total

switching capacity.

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 FlexNetwork 7502 Switch Chassis (JD242C)

Included accessories 1 HP 7502 Spare Fan Assembly (JD213A)

I/O ports and slots 2 I/O module slots

Supports a maximum of 96 Gigabit Ethernet ports or 96 autosensing 10/100/1000 ports or 32

1/10GbE ports or 16 10GbE ports or 8 40GbE ports, or a combination

Additional ports and

slots

2 MPU (for management modules) slots

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JD213A

1 fan tray slot

Physical characteristics Dimensions $17.17(w) \times 16.54(d) \times 6.89(h)$ in $(43.6 \times 42.0 \times 17.5 \text{ cm})$ (4U height)

Weight 59 lb (26.76 kg) shipping weight

Mounting and enclosure Mounts in an EIA-standard 19 in. rack or other equipment cabinet (hardware included); Horizontal

surface mounting only

Reliability Availability 99.999%

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

10% to 95%, noncondensing

Nonoperating/Storage -40°F to 158°F (-40°C to 70°C)

temperature

Nonoperating/Storage relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 49.8 dB, High-speed fan: 56.7 dB

Electrical characteristics Frequency 50/60 Hz

Voltage 100 - 120 / 200 - 240 VAC, rated

-48 to -60 VDC, rated

(depending on power supply chosen)

 Current
 5/10 A

 Power output
 300 W

Notes Based on a common power supply of 300 W (AC/DC)

Safety UL 60950-1; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN

61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR

47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

EN EN 61000-4-2:1995+A1:1998+A2:2001

ESD EN 61000-4-2

Radiated EN 61000-4-3

EFT/Burst EN 61000-4-4

Surge EN 61000-4-5

Conducted EN 61000-4-6

Power frequency IEC 61000-4-8

magnetic field

Voltage dips and EN 61000-4-11

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3, IEC 61000-3-3

Management IMC – Intelligent Management Center; Command-line interface; Web browser; Out-of-band

management (serial RS-232c); SNMP manager; Telnet; Terminal interface (serial RS-232c); Modem

interface; IEEE 802.3 Ethernet mib; Ethernet interface mib

Notes RFCs supported only in Comware v7:

1541, 1542, 1981, 2080, 2460, 2464, 2473, 2474, 2545, 2711, 2863, 2868, 3315, 3413, 3416, 3484, 3575, 3736, 3810, 3956, 4123, 4271, 4291, 4292, 4293, 4443, 4552, 4607, 4659, 4798,

4861, 4862, 5080, 5095, 5340, 5492, 5905 and 6192

For non-TAA environments, IKE/IPSec functionality is provided by the HPE 7500/10500 20Gbps VPN

Firewall Module (JG372A).

IRF functionality is not supported on the HP 7502 Switch Chassis.

Comware v7 MPUs (JH207A, JH208A and JH209A) only support these LPUs:

• Comware v7 LPUs- JH209A, JH210A, JH211A, JH212A, JH213A, JH214A, and JH309A

Comware v5 LPUs- JG663A, JD229B, JD230A, JD234A, JD237A, JD221A, JD231A, JD232A,

JD233A, JD191A, JD235A, JD236A, JF290A, and JC792A

Performance depends on the MPU/Fabric installed, and when installed with two (2) JH208A the performance are as follows: up to 476 MPPS for packet performance and 640 Gbps for total switching

capacity.

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 FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle (JH333A)

Included accessories 1 HP 7510 Spare Fan Assembly (JD216A)

2 HP 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ Main Processing Unit (JH209A)

I/O ports and slots 10 I/O module slots

Supports a maximum of 480 Gigabit Ethernet ports or 480 autosensing 10/100/1000 ports or 160

1/10GbE ports or 80 10GbE ports or 40 40GbE ports, or a combination

Additional ports and

slots

2 switch fabric slots

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JD216A

1 fan tray slot

Physical characteristics Dimensions $17.17(w) \times 16.54(d) \times 27.87(h)$ in $(43.6 \times 42.0 \times 70.8 \text{ cm})$ (16U height)

Weight 211 lb (95.71 kg) shipping weight

Mounting and enclosure Mounts in an EIA-standard 19 in. rack or other equipment cabinet (hardware included); Horizontal

surface mounting only

Reliability Availability 99.999%

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

10% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 53.5 dB, High-speed fan: 56.7 dB

Electrical characteristics Frequency 50/60 Hz

Voltage 100 - 120 / 200 - 240 VAC, rated

-48 to -60 VDC, rated

(depending on power supply chosen)

 Current
 16/50 A

 Power output
 1400 W

Notes Based on a common power supply of 1400 W (AC/DC)

Safety UL 60950-1; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN

61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR

47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

EN EN 61000-4-2:1995+A1:1998+A2:2001

 ESD
 EN 61000-4-2

 Radiated
 EN 61000-4-3

 EFT/Burst
 EN 61000-4-4

 Surge
 EN 61000-4-5

 Conducted
 EN 61000-4-6

 Power frequency
 IEC 61000-4-8

magnetic field

Voltage dips and EN 61000-4-11

interruptions

 Harmonics
 EN 61000-3-2, IEC 61000-3-2

 Flicker
 EN 61000-3-3, IEC 61000-3-3

Management IMC - Intelligent Management Center; Command-line interface; Web browser; Out-of-band

management (serial RS-232c); SNMP manager; Telnet; Terminal interface (serial RS-232c); Modem

interface; IEEE 802.3 Ethernet mib; Ethernet interface mib

Notes RFCs supported only in Comware v7:

1541, 1542, 1981, 2080, 2460, 2464, 2473, 2474, 2545, 2711, 2863, 2868, 3315, 3413, 3416, 3484, 3575, 3736, 3810, 3956, 4123, 4271, 4291, 4292, 4293, 4443, 4552, 4607, 4659, 4798,

4861, 4862, 5080, 5095, 5340, 5492, 5905 and 6192

For non-TAA environments, IKE/IPSec functionality is provided by the HPE 7500/10500 20Gbps VPN

Firewall Module (JG372A).

• Comware v7 MPUs (JH207A, JH208A and JH209A) only support these LPUs:

Comware v7 LPUs- JH209A, JH210A, JH211A, JH212A, JH213A, JH214A, and JH309A

Comware v5 LPUs- JG663A, JD229B, JD230A, JD234A, JD237A, JD221A, JD231A, JD232A,

JD233A, JD191A, JD235A, JD236A, JF290A, and JC792A

Performance depends on the MPU/Fabric installed, and when installed with two (2) JH209A the performance are as follows: up to 2,380 MPPS for packet performance and 4,160 Gbps for total

switching capacity.

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 FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle (JH332A)

1 HP 7506 Spare Fan Assembly (JD214A) Included accessories

> 2 HP 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ Main Processing Unit (JH209A)

I/O ports and slots 6 I/O module slots

Supports a maximum of 288 Gigabit Ethernet ports or 288 autosensing 10/100/1000 ports or 96

1/10GbE ports or 48 10GbE ports or 24 40GbE ports, or a combination

Additional ports and slots

2 switch fabric slots

Power supplies

2 power supply slots

1 minimum power supply required (ordered separately)

includes: 1 x JD214A Fan tray

1 fan tray slot

Physical characteristics

Dimensions 17.17(w) x 16.54(d) x 22.64(h) in (43.6 x 42.0 x 57.5 cm) (13U height)

207 lb (93.9 kg) shipping weight Weight

Mounting and enclosure Mounts in an EIA-standard 19 in. rack or other equipment cabinet (hardware included); Horizontal

surface mounting only

Reliability

99.999% **Availability**

Environment

Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

10% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 53.6 dB, High-speed fan: 57.7 dB **Electrical characteristics** Frequency

50/60 Hz

Achieved Miercom Certified Green Award

The H3C S7506E (HP 7506) is Certified Green in the 2009 Miercom **Descriptions**

Green Switches Industry Assessment.

100 - 120 / 200 - 240 VAC, rated Voltage

-48 to -60 VDC, rated

(depending on power supply chosen)

Current 16/50 A 1400 W Power output

Notes Based on a common power supply of 1400 W (AC/DC)

Safety UL 60950-1; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN

61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR

47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

EN EN 61000-4-2:1995+A1:1998+A2:2001

ESD EN 61000-4-2

Radiated EN 61000-4-3

EFT/Burst EN 61000-4-4

Surge EN 61000-4-5

Conducted EN 61000-4-6

Power frequency IEC 61000-4-8

magnetic field

Voltage dips and EN 61000-4-11

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2

Flicker EN 61000-3-3, IEC 61000-3-3

Management IMC - Intelligent Management Center; Command-line interface; Web browser; Out-of-band

management (serial RS-232c); SNMP manager; Telnet; Terminal interface (serial RS-232c); Modem

interface; IEEE 802.3 Ethernet mib; Ethernet interface mib

Notes RFCs supported only in Comware v7:

1541, 1542, 1981, 2080, 2460, 2464, 2473, 2474, 2545, 2711, 2863, 2868, 3315, 3413, 3416, 3484, 3575, 3736, 3810, 3956, 4123, 4271, 4291, 4292, 4293, 4443, 4552, 4607, 4659, 4798,

4861, 4862, 5080, 5095, 5340, 5492, 5905 and 6192

For non-TAA environments, IKE/IPSec functionality is provided by the HPE 7500/10500 20Gbps VPN

Firewall Module (JG372A).

Comware v7 MPUs (JH207A, JH208A and JH209A) only support these LPUs:

Comware v7 LPUs- JH209A, JH210A, JH211A, JH212A, JH213A, JH214A, and JH309A
 Comware v5 LPUs- JG663A, JD229B, JD230A, JD234A, JD237A, JD221A, JD231A, JD232A,

JD233A, JD191A, JD235A, JD236A, JF290A, and JC792A

Performance depends on the MPU/Fabric installed, and when installed with two (2) JH209A the performance are as follows: up to 1,428 MPPS for packet performance and 2,880 Gbps for total

switching capacity.

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 FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle (JH331A)

Included accessories 1 HP 7503 Spare Fan Assembly (JD212A)

2 HP 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ Main Processing Unit (JH209A)

I/O ports and slots 3 I/O module slots

Supports a maximum of 144 Gigabit Ethernet ports or 144 autosensing 10/100/1000 ports or 48

1/10GbE ports or 24 10GbE ports or 12 40GbE ports, or a combination

Additional ports and

slots

2 switch fabric slots

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JD212A

1 fan tray slot

Dimensions Physical characteristics 17.17(w) x 16.54(d) x 17.36(h) in (43.6 x 42.0 x 44.1 cm) (10U height)

> Weight 147 lb (66.68 kg) shipping weight

Mounting and enclosure Mounts in an EIA-standard 19 in. rack or other equipment cabinet (hardware included); Horizontal

surface mounting only

99.999% Reliability **Availability**

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

temperature

10% to 95%, noncondensing

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 51.6 dB, High-speed fan: 56.1 dB

Electrical characteristics Frequency 50/60 Hz

> 100 - 120 / 200 - 240 VAC, rated Voltage

> > -48 to -60 VDC, rated

(depending on power supply chosen)

Current 16/50 A Power output 1400 W

Notes Based on a common power supply of 1400 W (AC/DC)

Safety UL 60950-1; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN

61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR

47, Part 15) Class A

Generic **Immunity** ETSI EN 300 386 V1.3.3

> EN 61000-4-2:1995+A1:1998+A2:2001 ΕN

ESD EN 61000-4-2 Radiated EN 61000-4-3 **EFT/Burst** EN 61000-4-4 EN 61000-4-5 Surge EN 61000-4-6 **Conducted** IEC 61000-4-8 Power frequency

magnetic field

Voltage dips and EN 61000-4-11

interruptions

EN 61000-3-2. IEC 61000-3-2 Harmonics EN 61000-3-3, IEC 61000-3-3 **Flicker**

IMC - Intelligent Management Center; Command-line interface; Web browser; Out-of-band Management

management (serial RS-232c); SNMP manager; Telnet; Terminal interface (serial RS-232c); Modem

interface; IEEE 802.3 Ethernet mib; Ethernet interface mib

Notes RFCs supported only in Comware v7:

> 1541, 1542, 1981, 2080, 2460, 2464, 2473, 2474, 2545, 2711, 2863, 2868, 3315, 3413, 3416, 3484, 3575, 3736, 3810, 3956, 4123, 4271, 4291, 4292, 4293, 4443, 4552, 4607, 4659, 4798,

4861, 4862, 5080, 5095, 5340, 5492, 5905 and 6192

For non-TAA environments, IKE/IPSec functionality is provided by the HPE 7500/10500 20Gbps VPN

Firewall Module (JG372A).

Comware v7 MPUs (JH207A, JH208A and JH209A) only support these LPUs:

Services

Technical Specifications

Comware v7 LPUs- JH209A, JH210A, JH211A, JH212A, JH213A, JH214A, and JH309A

•Comware v5 LPUs- JG663A, JD229B, JD230A, JD234A, JD237A, JD221A, JD231A, JD232A,

JD233A, JD191A, JD235A, JD236A, JF290A, and JC792A

Performance depends on the MPU/Fabric installed, and when installed with two (2) JH209A the performance are as follows: up to 714 MPPS for packet performance and 1,920 Gbps for total

switching capacity.

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 BGP

(applies to all products in series)

RFC 1771 BGPv4

RFC 1772 Application of the BGP

RFC 1997 BGP Communities Attribute Protocol RFC 1998 PPP Gandalf FZA Compression Protocol (SNMP)

RFC 2385 BGP Session Protection via TCP MD5

RFC 2439 BGP Route Flap Damping RFC 2796 BGP Route Reflection with the SNMP

RFC 2858 BGP-4 Multi-Protocol Extensions

RFC 2918 Route Refresh Capability RFC 3065 Autonomous System Confederations for RFC 1573 SNMP MIB II RFC 1643 Ethernet MIB **BGP**

RFC 3392 Capabilities Advertisement with BGP-4 RFC 1657 BGP-4 MIB RFC 4271 A Border Gateway Protocol 4 (BGP-4) RFC 1724 RIPv2 MIB RFC 4272 BGP Security Vulnerabilities Analysis

RFC 4273 Definitions of Managed Objects for RFC 1850 OSPFv2 MIB

BGP-4 RFC 1907 SNMPv2 MIB

RFC 4274 BGP-4 Protocol Analysis RFC 4275 BGP-4 MIB Implementation Survey RFC 2012 SNMPv2 MIB for TCP RFC 4276 BGP-4 Implementation Report RFC 2013 SNMPv2 MIB for UDP

RFC 4277 Experience with the BGP-4 Protocol RFC 4360 BGP Extended Communities Attribute

RFC 4456 BGP Route Reflection: An Alternative to RFC 2452 IPV6-TCP-MIB Full Mesh Internal BGP (IBGP) RFC 2454 IPV6-UDP-MIB

RFC 5291 Outbound Route Filtering Capability for RFC 2465 IPv6 MIB BGP-4

RFC 5292 Address-Prefix-Based Outbound Route RFC 2571 SNMP Framework MIB Filter for BGP-4

Denial of service protection

RFC 2267 Network Ingress Filtering RFC 6192: Protecting the Router Control Plane

Automatic filtering of well-known denial-of-service

packets

CPU DoS Protection Rate Limiting by ACLs

Device management

RFC 1157 SNMPv1/v2c RFC 1305 NTPv3

RFC 2579 (SMIv2 Text Conventions) RFC 2580 (SMIv2 Conformance)

RFC 2819 (RMON groups Alarm, Event, History

and Statistics only) Multiple Configuration Files

RFC 1902 (SNMPv2)

RFC 2933 IGMP MIB

IPv4

MIBs

RFC 1156 (TCP/IP MIB)

RFC 1157 A Simple Network Management

RFC 1213 MIB II

RFC 1215 A Convention for Defining Traps for use

RFC 1229 Interface MIB Extensions

RFC 1493 Bridge MIB

RFC 1757 Remote Network Monitoring MIB

RFC 2011 SNMPv2 MIB for IP RFC 2096 IP Forwarding Table MIB

RFC 2233 Interfaces MIB RFC 2466 ICMPv6 MIB

RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Notification MIB RFC 2573 SNMP-Target MIB

RFC 2578 Structure of Management Information

Version 2 (SMIv2)

RFC 2580 Conformance Statements for SMIv2

RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting MIB RFC 2665 Ethernet-Like-MIB RFC 2668 802.3 MAU MIB

RFC 2674 802.1p and IEEE 802.1Q Bridge MIB

RFC 2787 VRRP MIB RFC 2819 RMON MIB

RFC 2863 The Interfaces Group MIB RFC 2925 Ping MIB

RFC 2932 IP (Multicast Routing MIB)

RFC 2934 Protocol Independent Multicast MIB for

Multiple Software Images SSHv1/SSHv2 Secure Shell TACACS/TACACS+

General protocols

IEEE 802.1ad Q-in-Q

IEEE 802.1ag Service Layer OAM IEEE 802.1AX-2008 Link Aggregation

IEEE 802.1p Priority IEEE 802.1Q VLANs

IEEE 802.1s Multiple Spanning Trees

IEEE 802.1w Rapid Reconfiguration of Spanning

Tree

IEEE 802.1X PAE

IEEE 802.3ab 1000BASE-T

IEEE 802.3ac (VLAN Tagging Extension)

IEEE 802.3ad Link Aggregation Control Protocol

(LACP)

IEEE 802.3ae 10-Gigabit Ethernet IEEE 802.3af Power over Ethernet

IEEE 802.3ah Ethernet in First Mile over Point to

Point Fiber - EFMF IEEE 802.3at

IEEE 802.3ba 40 and 100 Gigabit Ethernet

Architecture

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 894 IP over Ethernet

RFC 903 RARP

RFC 906 TFTP Bootstrap

RFC 925 Multi-LAN Address Resolution

RFC 950 Internet Standard Subnetting Procedure

RFC 951 BOOTP

RFC 959 File Transfer Protocol (FTP)

RFC 1027 Proxy ARP

RFC 1035 Domain Implementation and

Specification

RFC 1042 IP Datagrams RFC 1058 RIPv1

RFC 1142 OSI IS-IS Intra-domain Routing Protocol

RFC 1195 OSI ISIS for IP and Dual Environments

RFC 1213 Management Information Base for Network Management of TCP/IP-based internets

RFC 1256 ICMP Router Discovery Protocol (IRDP) RFC 1293 Inverse Address Resolution Protocol

RFC 1305 NTPv3

RFC 1350 TFTP Protocol (revision 2)
RFC 1393 Traceroute Using an IP Option

RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB

RFC 3417 Simple Network Management Protocol

(SNMP) over IEEE 802 Networks RFC 3418 MIB for SNMPv3

RFC 3595 Textual Conventions for IPv6 Flow

Label

RFC 3621 Power Ethernet MIB RFC 3813 MPLS LSR MIB RFC 3814 MPLS FTN MIB RFC 3815 MPLS LDP MIB

RFC 3826 AES for SNMP's USM MIB RFC 4133 Entity MIB (Version 3)

RFC 4444 Management Information Base for Intermediate System to Intermediate System (IS-IS)

MPLS

RFC 2205 Resource ReSerVation Protocol

RFC 2209 Resource ReSerVation Protocol (RSVP)

RFC 2702 Requirements for Traffic Engineering

Over MPLS

RFC 2858 Multiprotocol Extensions for BGP-4 RFC 2961 RSVP Refresh Overhead Reduction

Extensions

RFC 3031 Multiprotocol Label Switching

Architecture

RFC 3032 MPLS Label Stack Encoding

RFC 3107 Carrying Label Information in BGP-4 RFC 3209 RSVP-TE: Extensions to RSVP for LSP

Tunnels

RFC 3212 Constraint-Based LSP Setup using LDP

RFC 3479 Fault Tolerance for the Label

Distribution Protocol (LDP)

RFC 3487 Graceful Restart Mechanism for LDP RFC 3564 Requirements for Support of Differentiated Service-aware MPLS Traffic

Engineering

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)

RFC 1519 CIDR

RFC 1531 Dynamic Host Configuration Protocol

RFC 1533 DHCP Options and BOOTP Vendor

Extensions

RFC 1541 DHCP

RFC 1542 BOOTP

RFC 1591 DNS (client only)

RFC 1624 Incremental Internet Checksum

RFC 1701 Generic Routing Encapsulation

RFC 1721 RIP-2 Analysis

RFC 1723 RIP v2

RFC 1812 IPv4 Routing

RFC 1981 Path MTU Discovery for IP version 6

RFC 2030 Simple Network Time Protocol (SNTP)

RFC 2082 RIP-2 MD5 Authentication

RFC 2091 Trigger RIP

RFC 2131 DHCP

RFC 2138 Remote Authentication Dial In User

Service (RADIUS)

RFC 2236 IGMP Snooping

RFC 2338 VRRP

RFC 2453 RIPv2

RFC 2460 IPv6

RFC 2464 Transmission of IPv6 Packets over

Ethernet Networks

RFC 2474 Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers

RFC 2644 Directed Broadcast Control

RFC 2711 IPv6 Router Alert Option

RFC 2763 Dynamic Name-to-System ID mapping

RFC 2784 Generic Routing Encapsulation (GRE)

RFC 2865 Remote Authentication Dial In User

Service (RADIUS)

RFC 2868 RADIUS Attributes for Tunnel Protocol

RFC 2966 Domain-wide Prefix Distribution with

Two-Level IS-IS

RFC 2973 IS-IS Mesh Groups

RFC 3022 Traditional IP Network Address

Translator (Traditional NAT)

RFC 3277 IS-IS Transient Blackhole Avoidance

RFC 3413 Simple Network Management Protocol

(SNMP) Applications

RFC 3416 Protocol Operations for SNMP

RFC 3484 Default Address Selection for Internet

Protocol version 6 (IPv6)

RFC 3567 Intermediate System to Intermediate

System (IS-IS) Cryptographic Authentication

RFC 3575 IANA Considerations for RADIUS

RFC 3719 Recommendations for Interoperable

Networks using Intermediate System to

Intermediate System (IS-IS)

RFC 3736 Stateless Dynamic Host Configuration

Protocol (DHCP) Service for IPv6

Using

Label Distribution Protocol (LDP) Signaling

RFC 5036 LDP Specification

Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

RFC 1155 Structure of Management Information

RFC 1157 SNMPv1

RFC 1448 Protocol Operations for version 2 of the

Simple Network Management Protocol (SNMPv2)

RFC 2211 Controlled-Load Network

RFC 2819 Four groups of RMON: 1 (statistics), 2

(history), 3 (alarm) and 9 (events)

RFC 3176 sFlow

RFC 3411 SNMP Management Frameworks

RFC 3412 SNMPv3 Message Processing

RFC 3414 SNMPv3 User-based Security Model

(USM)

RFC 3415 SNMPv3 View-based Access Control

Model VACM)

ANSI/TIA-1057 LLDP Media Endpoint Discovery

(LLDP-MED)

OSPF

RFC 1245 OSPF protocol analysis

RFC 1246 Experience with OSPF

RFC 1765 OSPF Database Overflow

RFC 1850 OSPFv2 Management Information Base

(MIB), traps

RFC 2154 OSPF w/ Digital Signatures (Password, MD-5)

RFC 2328 OSPFv2

RFC 2370 OSPF Opaque LSA Option

RFC 3101 OSPF NSSA

RFC 3137 OSPF Stub Router Advertisement

RFC 3623 Graceful OSPF Restart

RFC 3630 Traffic Engineering Extensions to

RFC 4061 Benchmarking Basic OSPF Single

Control Plane Convergence

RFC 4062 OSPF Benchmarking Terminology and Concepts

RFC 4063 Considerations When Using Basic OSPF

Convergence Benchmarks

RFC 4222 Prioritized Treatment of Specific OSPF

Version 2 Packets and Congestion Avoidance

RFC 4577 OSPF as the Provider/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks

(VPNs)

RFC 4811 OSPF Out-of-Band LSDB

Resynchronization

RFC 4812 OSPF Restart Signaling

RFC 4813 OSPF Link-Local Signaling

RFC 4940 IANA Considerations for OSPF

RFC 3784 ISIS TE support

RFC 3786 Extending the Number of IS-IS LSP

Fragments Beyond the 256 Limit

RFC 3787 Recommendations for Interoperable IP

Networks using Intermediate System to

Intermediate System (IS-IS)

RFC 3810 Multicast Listener Discovery Version 2

(MLDv2) for IPv6

RFC 3847 Restart signaling for IS-IS

RFC 3956 Embedding the Rendezvous Point (RP)

Address in an IPv6 Multicast Address

RFC 4123: Session Initiation Protocol (SIP)-H.323

Interworking Requirements

RFC 4251 The Secure Shell (SSH) Protocol

Architecture

RFC 4271 A Border Gateway Protocol 4 (BGP-4)

RFC 4291 IP Version 6 Addressing Architecture

RFC 4292 IP Forwarding Table MIB

RFC 4293 Management Information Base for the

Internet Protocol (IP)

RFC 4443 Internet Control Message Protocol

(ICMPv6) for the Internet Protocol Version 6

(IPv6) Specification

RFC 4486 Subcodes for BGP Cease Notification

Message

RFC 4552 Authentication/Confidentiality for

OSPFv3

RFC 4607 Source-Specific Multicast for IP

RFC 4659 BGP-MPLS IP Virtual Private Network

(VPN) Extension for IPv6 VPN

RFC 4798 Connecting IPv6 Islands over IPv4

MPLS Using IPv6 Provider Edge Routers (6PE)

RFC 4861 Neighbor Discovery for IP version 6 (IPv6)

RFC 4862 IPv6 Stateless Address

Autoconfiguration

RFC 4884 Extended ICMP to Support Multi-Part

Messages

RFC 4941 Privacy Extensions for Stateless

Address Autoconfiguration in IPv6

RFC 5095 Deprecation of Type 0 Routing Headers Port Security

RFC 5130 A Policy Control Mechanism in IS-IS

Using Administrative Tags

RFC 5340 OSPF for IPv6

RFC 5492 Capabilities Advertisement with BGP-4

RFC 5905 Network Time Protocol Version 4:

Protocol and Algorithms Specification

IP multicast

RFC 2236 IGMPv2

RFC 2283 Multiprotocol Extensions for BGP-4

RFC 2362 PIM Sparse Mode

RFC 3376 IGMPv3

RFC 3446 Anycast Rendezvous Point (RP)

mechanism using Protocol Independent Multicast

QoS/CoS

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RFC 1349 Type of Service in the Internet Protocol

RFC 2211 Specification of the Controlled-Load

Network Element Service

RFC 2212 Guaranteed Quality of Service

RFC 2474 DSCP DiffServ

RFC 2475 DiffServ Architecture

RFC 2597 DiffServ Assured Forwarding (AF)

RFC 2598 DiffServ Expedited Forwarding (EF)

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IEEE 802.1X Port Based Network Access Control

RFC 1321 The MD5 Message-Digest Algorithm

RFC 1334 PPP Authentication Protocols (PAP)

RFC 1492 TACACS+

RFC 1994 PPP Challenge Handshake

Authentication Protocol (CHAP)

RFC 2082 RIP-2 MD5 Authentication

RFC 2104 Keyed-Hashing for Message

Authentication

RFC 2408 Internet Security Association and Key

Management Protocol (ISAKMP)

RFC 2409 The Internet Key Exchange (IKE)

RFC 2716 PPP EAP TLS Authentication Protocol

RFC 2865 RADIUS Authentication

RFC 2866 RADIUS Accounting

RFC 2867 RADIUS Accounting Modifications for

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RFC 2868 RADIUS Attributes for Tunnel Protocol

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RFC 2869 RADIUS Extensions

RFC 5080: Common Remote Authentication Dial In

User Service (RADIUS) Implementation Issues and

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SSHv1/SSHv2 Secure Shell

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RFC 2403 - HMAC-MD5-96

RFC 2404 - HMAC-SHA1-96

RFC 2405 - DES-CBC Cipher algorithm

RFC 2407 - Domain of interpretation

RFC 2473 Generic Packet Tunneling in IPv6

RFC 2547 BGP/MPLS VPNs

RFC 2917 A Core MPLS IP VPN Architecture

RFC 3947 - Negotiation of NAT-Traversal in the

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RFC 4302 - IP Authentication Header (AH)

RFC 4303 - IP Encapsulating Security Payload

(PIM) and Multicast Source Discovery Protocol (MSDP)

RFC 3618 Multicast Source Discovery Protocol (MSDP)

RFC 3973 PIM Dense Mode

RFC 4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener

Discovery (MLD) Snooping Switches RFC 4601 Draft 10 PIM Sparse Mode RFC 4604 Using Internet Group Management Protocol Version 3 (IGMPv3) and Multicast

Discovery Protocol Version 2 (MLDv2) for

Source-Specific Multicast

RFC 4605 IGMP/MLD Proxying

RFC 4607 Source-Specific Multicast for IP

RFC 4610 Anycast-RP Using Protocol

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Listener

Multicast (PIM)

RFC 5059 Bootstrap Router (BSR) Mechanism for

Protocol Independent Multicast (PIM)

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RFC 1886 DNS Extension for IPv6

RFC 1887 IPv6 Unicast Address Allocation

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RFC 1981 IPv6 Path MTU Discovery

RFC 2080 RIPng for IPv6

RFC 2081 RIPng Protocol Applicability Statement

RFC 2292 Advanced Sockets API for IPv6

RFC 2373 IPv6 Addressing Architecture

RFC 2375 IPv6 Multicast Address Assignments

RFC 2460 IPv6 Specification

RFC 2461 IPv6 Neighbor Discovery

RFC 2462 IPv6 Stateless Address Auto-

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RFC 2463 ICMPv6

RFC 2464 Transmission of IPv6 over Ethernet

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RFC 2473 Generic Packet Tunneling in IPv6

RFC 2526 Reserved IPv6 Subnet Anycast

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RFC 2529 Transmission of IPv6 Packets over IPv4

RFC 2545 Use of MP-BGP-4 for IPv6

RFC 2553 Basic Socket Interface Extensions for

IPv6

RFC 2710 Multicast Listener Discovery (MLD) for

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RFC 2740 OSPFv3 for IPv6

RFC 2767 Dual stacks IPv46 & IPv6

RFC 2893 Transition Mechanisms for IPv6 Hosts

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RFC 3056 Connection of IPv6 Domains via IPv4

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RFC 3307 IPv6 Multicast Address Allocation

(ESP)

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RFC 1828 IP Authentication using Keyed MD5

RFC 1829 The ESP DES-CBC Transform

RFC 2085 HMAC-MD5 IP Authentication with

Replay Prevention

RFC 2401 IP Security Architecture

RFC 2402 IP Authentication Header

RFC 2406 IP Encapsulating Security Payload

RFC 2410 - The NULL Encryption Algorithm and

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RFC 2411 IP Security Document Roadmap

RFC 3315 DHCPv6 (client and relay)

RFC 3484 Default Address Selection for IPv6

RFC 3513 IPv6 Addressing Architecture

RFC 3736 Stateless Dynamic Host Configuration

Protocol (DHCP) Service for IPv6

RFC 3810 MLDv2 for IPv6

RFC 4214 Intra-Site Automatic Tunnel Addressing

Protocol (ISATAP)

RFC 4861 IPv6 Neighbor Discovery

RFC 4862 IPv6 Stateless Address Auto-

configuration

HPE FlexNetwork 7500 Switch Series accessories

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Modules	
HPE FlexNetwork 7500 12-port GbE SFP SC Module	JD207A
HPE FlexNetwork 7500 24-port GbE SFP SC Module	JD203B
HPE FlexNetwork 7500 24-port GbE SFP Enhanced Module	JD231A
HPE FlexNetwork 7500 24-port GbE SFP with 8 Combo SD Module	JD234A
HPE FlexNetwork 7500 24-port GbE SFP/2-port 10GbE XFP Module	JD205A
HPE FlexNetwork 7500 24-port GbE SFP with 8 Combo and 2-port 10GbE XFP SD Module	JD230A
HPE FlexNetwork 7500 48-port GbE SFP SC Module	JD211B
HPE FlexNetwork 7500 48-port GbE SFP Enhanced Module	JD221A
HPE FlexNetwork 7500 48-port GbE SFP SD Module	JD237A
HPE FlexNetwork 7500 20-port Gig-T/4-port GbE Combo PoE-upgradable SC Module	JC669A
HPE FlexNetwork 7500 24-port Gig-T SC Module	JD204B
HPE FlexNetwork 7500 24-port Gig-T/2-port 10GbE XFP SC Module	JD206A
HPE FlexNetwork 7500 40-port Gig-T/8-port SFP PoE-upgradable SC Module	JD228B
HPE FlexNetwork 7500 48-port Gig-T PoE-ready SC Module	JD210A
HPE FlexNetwork 7500 48-port Gig-T PoE+ SD Module	JD229B
HPE FlexNetwork 7500 48-port 1000BASE-T PoE+ SC Module	JG663A
HPE FlexNetwork 7500 2-port 10GbE XFP SC Module	JD201A
HPE FlexNetwork 7500 2-port 10GbE XFP Enhanced Module	JD233A
HPE FlexNetwork 7500 2-port 10GbE XFP SD Module	JD236A
HPE FlexNetwork 7500 4-port 10GbE XFP Enhanced Module	JD232A
HPE FlexNetwork 7500 4-port 10GbE XFP SD Module	JD235A
HP FlexNetwork 7500 8-port 10GbE XFP SD Module	JD191A
HPE FlexNetwork 7500 8-port 10G SFP+ SC Module	JF290A
HPE FlexNetwork 7500 4-port 40GbE QSFP+ SC Module	JC792A
HP 7500 4-port 40GbE CFP SC Module	JG373A
HPE FlexNetwork 7500 44-port SFP/4-port SFP+ SE Module	JH210A
HPE FlexNetwork 7500 24-port SFP/4-port SFP+ SE Module	JH211A
HPE FlexNetwork 7500 48-port 1000BASE-T SE Module	JH212A
HPE FlexNetwork 7500 48-port 1000BASE-T with PoE+ SE Module	JH213A
HPE FlexNetwork 7500 16-port 1/10GbE SFP+ SF Module	JH214A
HPE FlexNetwork 7500 12-port 1/10GbE SFP+ EC Module	JH309A
HP 7500 48-port 100BASE-FX Module	JD197B

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 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		
HPE X115 100M SFP LC BX 10-D Transceiver	HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X115 100M SFP LC BX 10-D Transceiver	HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X115 100M SFP LC LX Transceiver JD102B HPE X130 100K SFP LC LX Transceiver JD107A HPE X130 100K SFP LC LCR Single Mode 80km 1550nm Transceiver JD107A HPE X130 100K FP LC LCR Single Mode 10km 1310nm Transceiver JD108B HPE X130 100K FP LC SR Transceiver JD117B HPE X135 100K SFP LC LCR Transceiver JD117B HPE X130 10G SFP+ LC LR Transceiver JD094B HPE X130 10G SFP+ LC LR Transceiver JD094B HPE X130 10G SFP+ LC LR Transceiver JD094B HPE X130 10G SFP+ LC LR H80 tunable Transceiver JL250A HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable JD095C HPE FlexNetwork X240 10G SFP+ to SFP+ 1m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable JG081C HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable JG081C HPE X180 10G XFP LC LH 80km 1538,98mm DWDM Transceiver JG226A HPE X180 10G XFP LC LH 80km 1539,77mm DWDM Transceiver JG235A HPE X180 10G XFP LC LH 80km 1539,77mm DWDM Transceiver JG2350A HPE X180 10G XFP LC LR 45 M1 0km 310nm Transceiver JG2350A HPE X180 10G XFP LC LR 45 M1 0km	HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
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HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable JD097C 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 K180 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 HPE X130 10G SFP+ LC ER 40km Transceiver JG234A HPE X140 40G OSFP+ MPO SR4 Transceiver JG325B HPE X140 40G QSFP+ MPO SR4 Transceiver JG661A HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver JG709A HPE FlexNetwork X240 40G OSFP+ SPP+ 3m Direct Attach Copper Cable JG326A HPE FlexNetwork X240 40G OSFP+ SPP+ 3m Direct Attach Copper Cable JG327A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A HPE KIENNetwork X240 40G OSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG330A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ836A	HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver JG226A HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver JG227A HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver JG230A HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver JG230A HPE X130 10G SFP+ LC ER 40km Transceiver JG235A HPE X140 40G OSFP+ LC LR4 SM 10km 1310nm Transceiver JG325B HPE X140 40G OSFP+ MPO SR4 Transceiver JG661A HPE X140 40G OSFP+ MPO MM 850nm CSR4 300m Transceiver JG709A HPE FlexNetwork X240 40G OSFP+ OSFP+ 1m Direct Attach Copper Cable JG326A HPE FlexNetwork X240 40G OSFP+ OSFP+ 3m Direct Attach Copper Cable JG327A HPE FlexNetwork X240 40G OSFP+ SPP+ 5m Direct Attach Copper Cable JG328A HPE FlexNetwork X240 40G OSFP+ SPP+ 5m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G OSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG330A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ836A	HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable 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 1539.77nm DWDM Transceiver JG230A HPE X180 10G SFP+ LC ER 40km Transceiver JG230A HPE X130 10G SFP+ LC ER 40km Transceiver JG234A HPE X140 40G QSFP+ MPO SR4 Transceiver JG234A HPE X140 40G QSFP+ MPO SR4 Transceiver JG6661A HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver JG709A HPE FlexNetwork X240 40G QSFP+ USFP+ 1m Direct Attach Copper Cable JG326A HPE FlexNetwork X240 40G QSFP+ SFP+ 3m Direct Attach Copper Cable JG327A HPE FlexNetwork X240 40G QSFP+ SFP+ 5m Direct Attach Copper Cable JG328A HPE FlexNetwork X240 40G QSFP+ SFP+ 3m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G QSFP+ to 5x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG331A HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver Cables HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A	HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable JG081C HPE X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver JG226A HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver JG237A HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver JG230A HPE X130 10G SFP+ LC ER 40km Transceiver JG234A HPE X140 40G OSFP+ MPO SR4 Transceiver JG325B HPE X140 40G QSFP+ MPO SR4 Transceiver JG661A HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver JG709A HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable JG326A HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable JG327A HPE FlexNetwork X240 40G QSFP+ SFP+ 5m Direct Attach Copper Cable JG328A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG331A HPE K121 40 40G QSFP+ LC BiDi 100m MM Transceiver JL251A Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A <td>HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable</td> <td>JD096C</td>	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver JG227A HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver JG230A HPE X130 10G SFP+ LC ER 40km Transceiver JG234A HPE X140 40G QSFP+ MPO SR4 Transceiver JG325B HPE X140 40G QSFP+ MPO SR4 Transceiver JG661A HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver JG709A HPE FlexNetwork X240 40G QSFP+ OSFP+ 1m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ OSFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ OSFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ OSFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE RIENNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver Cables HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ836A	HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver JG230A HPE X130 10G SFP+ LC ER 40km Transceiver JG234A HPE X140 40G QSFP+ MPO SR4 Transceiver JG325B HPE X140 40G QSFP+ MPO SR4 Transceiver JG661A HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver JG709A HPE FlexNetwork X240 40G QSFP+ OSFP+ 1m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ be Ax10G SFP+ 1m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ836A	HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver HPE X130 10G SFP+ LC ER 40km Transceiver JG234A HPE X140 40G QSFP+ LC ER 40km Transceiver JG325B HPE X140 40G QSFP+ MPO SR4 Transceiver JG661A HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver JG709A HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver JG709A HPE FlexNetwork X240 40G QSFP+ OSFP+ 1m Direct Attach Copper Cable JG326A HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable JG327A HPE FlexNetwork X240 40G QSFP+ DSFP+ 5m Direct Attach Copper Cable JG328A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG331A HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver Cables HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A	HPE X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver	JG226A
HPE X130 10G SFP+ LC ER 40km Transceiver HPE X140 40G QSFP+ MPO SR4 Transceiver HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver JG661A HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver JG709A HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver JG709A HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable JG326A HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable JG327A HPE FlexNetwork X240 40G QSFP+ Sm Direct Attach Copper Cable JG328A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable JG329A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG331A HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver JL251A Cables HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ836A	HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver	JG227A
HPE X140 40G QSFP+ MPO SR4 Transceiver HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver HPE K140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 40G QSFP+ DSFP+ 5m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver Cables HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A	HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver	JG230A
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HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver Cables HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A	HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver Cables HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A	HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver Cables HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A	HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
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HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A	HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic CableAJ839AHPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic CableAJ838AHPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic CableAJ837AHPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic CableAJ836A	Cables	
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HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic CableAJ837AHPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic CableAJ836A	·	
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A	·	
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	HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A

HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
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

Appliance HPE 10500/11900/7500 20Gbps VPN Firewall Module	JG372A
Memory	
HPE FlexNetwork 7500 PoE DIMM Memory Module	JD192B
HPE X600 1G Compact Flash Card	JC684A
HPE X600 512M Compact Flash Card	JC685A
HPE X600 256M Compact Flash Card	JC686A
HPE FlexNetwork 7510 Switch Chassis (JD238C)	
HPE FlexNetwork 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit	JH207A
HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU	JH209A
HPE FlexNetwork 7500 1400W DC Power Supply	JD208A
HPE FlexNetwork 7500 1400W AC Power Supply	JD218A
HPE FlexNetwork 7500 2800W AC Power Supply	JD219A
HPE FlexNetwork 7500 6000W AC Power Supply	JD227A
HPE FlexNetwork 7510 Spare Fan Assembly	JD216A
HPE FlexNetwork 7506 Switch Chassis (JD239C)	
HPE FlexNetwork 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit	JH207A
HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU	JH209A
HPE FlexNetwork 7500 1400W DC Power Supply	JD208A
HPE FlexNetwork 7500 1400W AC Power Supply	JD218A
HPE FlexNetwork 7500 2800W AC Power Supply	JD219A
HPE FlexNetwork 7500 6000W AC Power Supply	JD227A
HPE FlexNetwork 7503/7506/7506 V 650W AC Power Supply Unit	JH215A
HPE FlexNetwork 7506 Spare Fan Assembly	JD214A
HPE FlexNetwork 7503 Switch Chassis (JD240C)	
HPE FlexNetwork 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit	JH207A
HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU	JH209A
HPE FlexNetwork 7500 1400W DC Power Supply	JD208A
HPE FlexNetwork 7500 1400W AC Power Supply	JD218A
HPE FlexNetwork 7500 2800W AC Power Supply	JD219A
HPE FlexNetwork 7500 6000W AC Power Supply	JD227A
HPE FlexNetwork 7503/7506/7506 V 650W AC Power Supply Unit	JH215A
HPE FlexNetwork 7503 Spare Fan Assembly	JD212A
HPE FlexNetwork 7502 Switch Chassis (JD242C)	
HPE FlexNetwork 7502 Main Processing Unit	JH208A
HPE FlexNetwork 7500 650W AC Power Supply	JD217A
HPE FlexNetwork 7500 650W DC Power Supply	JD209A
HPE FlexNetwork 7502 300W AC Power Supply	JD226A
HPE RPS 800 Redundant Power Supply	JD183A
HPE FlexNetwork 7502 Spare Fan Assembly	JD213A
HPE FlexNetwork 7510 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle (JH333A)	
HPE FlexNetwork 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit	JH207A
HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU	JH209A
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Accessories	
HPE FlexNetwork 7500 1400W DC Power Supply	JD208A
HPE FlexNetwork 7500 1400W AC Power Supply	JD218A
HPE FlexNetwork 7500 2800W AC Power Supply	JD219A
HPE FlexNetwork 7500 6000W AC Power Supply	JD227A
HPE FlexNetwork 7510 Spare Fan Assembly	JD216A
HPE FlexNetwork 7506 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle (JH332A)	
HPE FlexNetwork 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit	JH207A
HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU	JH209A
HPE FlexNetwork 7500 1400W DC Power Supply	JD208A
HPE FlexNetwork 7500 1400W AC Power Supply	JD218A
HPE FlexNetwork 7500 2800W AC Power Supply	JD219A
HPE FlexNetwork 7500 6000W AC Power Supply	JD227A
HPE FlexNetwork 7503/7506/7506 V 650W AC Power Supply Unit	JH215A
HPE FlexNetwork 7506 Spare Fan Assembly	JD214A
HPE FlexNetwork 7503 Switch with 2x2.4Tbps Fabric and Main Processing Unit Bundle (JH331A)	
HPE FlexNetwork 7500 1.2Tbps Fabric with 2-port 40GbE QSFP+ for IRF-only Main Processing Unit	JH207A
HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ MPU	JH209A
HPE FlexNetwork 7500 1400W DC Power Supply	JD208A
HPE FlexNetwork 7500 1400W AC Power Supply	JD218A
HPE FlexNetwork 7500 2800W AC Power Supply	JD219A
HPE FlexNetwork 7500 6000W AC Power Supply	JD227A
HPE FlexNetwork 7503/7506/7506 V 650W AC Power Supply Unit	JH215A
HPE FlexNetwork 7503 Spare Fan Assembly	JD212A

Summary of Changes

Date	Version History	Action	Description of Change:
02-Sep-2016	From Version 46 to	Changed	Minor changes made on Technical Specifications
	47		
26-Aug-2016	From Version 45 to	Changed	Edits made on F&B and Technical Specifications
04.4004.4	46		
01-Aug-2016	From Version 44 to	Added	SKUs added: JL250A
10-Jun-2016	45 From Version 43 to	Changed Changed	Technical Specifications and Accessories updated. Updates on the Configuration section
10-Juli-2010	44	Changed	opuates on the configuration section
06-Jun-2016	From Version 42 to	Changed	Document name changed to HPE FlexNetwork 7500
00 3411 2010	43	Changea	Switch Series.
			Product description updated.
08-Apr-2016	From Version 41 to	Changed	SKU descriptions updated on all document.
	42		
18-Mar-2016	From Version 40 to	Changed	Overview, Features and Benefits, Configuration, Technical
	41		Specifications and Accessories updated.
15-Jan-2016	From Version 39 to	Changed	Overview and Technical Specifications updated
04.5	40	Removed	SKUs removed: JD238B, JD239B, JD240B, JD242B
01-Dec-2015	From Version 38 to 39	Changed	Overview and Technical Specifications updated
02-Oct-2015	From Version 37 to	Changed	Configuration section updated
02 001 2013	38	Changea	comigaration section appeared
28-Sep-2015	From Version 36 to	Added	Models added: JD238C, JD239C, JD240C, JD242C,
	37		JH331A, JH332A, JH333A
			Accessories section added
		Changed	Updates made on Overview, Features and Benefits,
			Configuration and Technical Specifications.
17-Feb-2015	From Version 35 to 36	Changed	SKUs descriptions and Configuration menu updated.
03-Jul-2014	From Version 34 to	Changed	Configuration menu updated.
10-Jun-2014	35 From Version 33 to	Changed	Switch Enclosure Options were updated in the
10-Juli-2014	34	Changed	Configuration section.
15-Apr-2014	From Version 30 to	Changed	Minor edit was made in Product Overview.
	33		
31-Mar-2014	From Version 29 to	Changed	Configuration Rules was revised throughout
	30		Configuration.
19-Mar-2014	From Version 28 to	Changed	Transceivers were revised in Configuration.
22-Nov-2013	29 From Version 27 to	Changed	Box Level Integration CTO Models, Rack Level Integration
22-1100-2013	28	Changed	CTO Models, and Internal Power Supplies were revised in
			Configuration.
14-Oct-2013	From Version 26 to	Changed	Configuration was revised, including adding a new
	27	J = 1	Transceiver.
30-Sep-2013	From Version 25 to	Changed	Configuration was revised.
	26		Features and Benefits was revised.
07.0 00:-			Product overview was revised.
27-Sep-2013	From Version 24 to 25	Changed	Configuration was revised.
11-Sep-2013	From Version 23 to	Changed	Minor edit was made in Configuration.
·	24	J J	, and the second
19-Aug-2013	From Version 22 to	Changed	Box Level Integration CTO Models and Rack Level
	23		Integration CTO Models were revised in Configuration.

Summary of Changes

12-Jul-2013	From Version 21 to 22	Changed	Updated the Configuration Information.
19-Jun-2013	From Version 20 to 21	Changed	HP 10500/7500 20G Unified Wired-WLAN Module was added to Accessory Product Details Integration was revised in Features and Benefits
07-Jun-2013	From Version 19 to 20	Changed	Updated the Direct Attach Copper Cables in the Configuration Information section.
22-May-2013	From Version 18 to 19	Changed	Updated the Configuration Information.
12-Apr-2013	From Version 17 to 18	Removed	Completely removed Accessories section. Accessory Product Details: Removed several sections.
		Changed	Configuration: Completely updated Build To Order section.
19-Mar-2013	From Version 16 to 17	Changed	Corrected the new Configuration section.
01-Mar-2013	From Version 15 to 16	Changed	Corrected the formatting in the new Configuration section.
19-Feb-2013	From Version 13 to	Added	Added the Configuration section.
	15	Changed	Changes were made to Features and Benefits. The model specifications had minor updates, as did the Accessories section.
04-Dec-2012	From Version 12 to 13	Changed	Changes were made to Features and Benefits. The model specifications had minor updates, as did the Accessories section.
24-Sep-2012	From Version 11 to 12	Changed	Updated Features and Benefits, Introduction, the specifications, and Accessories.
21-May-2012	From Version 10 to 11	Changed	Updated the Standards and protocols section of Technical specifications.
14-May-2012	From Version 9 to 10	Changed	Features and Benefits, Accessories, and the weight and dimensions for each spec were revised.
02-Apr-2012	From Version 8 to 9	Changed	Part number was revised.
26-Mar-2012	From Version 7 to 8	Changed	Accessories were revised.
16-Nov-2011	From Version 6 to 7	Changed	Specifications were revised.
26-Sep-2011	From Version 5 to 6	Changed	Models, Features and Benefits and Accessories were revised.
07-Sep-2011	From Version 4 to 5	Added	Accessory Product Details was added.
07-Mar-2011	From Version 3 to 4	Changed	Accessories product descriptions and notes and services in Models were revised.
18-Feb-2011	From Version 2 to 3	Changed	Clarified in a couple of locations about the availability of IRF.
08-Oct-2010	From Version 1 to 2	Changed	Corrected the options section.

Summary of Changes



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