Overview

Models

HP 7510 Switch Chassis	JD238B
HP 7506-V Switch Chassis	JD241B
HP 7506 Switch Chassis	JD239B
HP 7503 Switch Chassis	JD240B
HP 7503-S Switch Chassis with 1 Fabric Slot	JD243B
HP 7502 Switch Chassis	JD242B

Key features

- High-end modular chassis
- For enterprise LAN core, data centers, MANs
- Extensive switching and routing, IPv6, MPLS
- Added functionality with service modules
- Robust network and service virtualization

Product overview

The HP 7500 Switch Series comprises 10-Gigabit modular chassis switches designed for campus LAN and small/midsize enterprise data center applications. These multilayer switches meet the evolving needs of integrated services networks and can be deployed in multiple network environments, including the enterprise LAN core, aggregation layer, and wiring closet edge, as well as in metropolitan area networks (MANs) and data centers. They feature cost-effective wire-speed 10-Gigabit Ethernet ports to provide the throughput and bandwidth necessary for mission-critical data and high-speed communications. A passive backplane, support for load sharing, and redundant management and fabrics help HP 7500 series switches offer high availability. Moreover, these switches deliver wire-speed Layer 2 and Layer 3 routing services for the most demanding applications.

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:
 - O Port-based rate limiting: provides per-port ingress-/egress-enforced maximum bandwidth
 - O Classifier-based rate limiting: uses an access control list (ACL) to enforce maximum bandwidth for ingress traffic on each port
 - O Guaranteed minimum: provides per-port, per-queue egress-based guaranteed minimum bandwidth
- Congestion avoidance: Weighted Random Early Detection (WRED)/Random Early Detection (RED)
- 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



Overview

- 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 automatically updated 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

Firewall

- Stateful firewall: enforces firewall policies to control traffic and filter access to network services; maintains session information for every connection passing through it, enabling the firewall to control packets based on existing sessions
- Zone-based access policies: logically groups virtual LANs (VLANs) into zones that share common security policies; allows both unicast and multicast policy settings by zones instead of by individual VLANs
- Application-level gateway (ALG): deep packet inspection in the firewall discovers the IP address and service port information embedded in the application data; the firewall then dynamically opens appropriate connections for specific applications
- NAT/PAT: choice of dynamic or static network address translation (NAT) preserves a network's IP address pool or conceals the
 private address of network resources, such as Web servers, which are made accessible to users of a guest or public wireless
 LAN

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 endpoints of the network
- Generic Routing Encapsulation (GRE): can be used to transport 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

Management

- Management interface control: provides management access through a modem port and terminal interface, as well as inband 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: multiple privilege levels with password protection restrict access to critical configuration commands; 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
- Web management: embedded HTML management tool with secure access (SSHv2)
- sFlow (RFC 3176): provides scalable ASIC-based wire-speed 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: FTP allows bidirectional transfers over a TCP/IP network and is used for configuration updates; Trivial FTP is a simpler method using User Datagram Protocol (UDP)
- 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 consistent timekeeping among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time



Overview

- 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 network manager to determine overall network performance and to diagnose and locate network congestion points or
 failures
- Info center: provides a central information center 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): automated device discovery protocol provides easy mapping by network management applications
- Dual flash images: provide independent primary and secondary operating system files for backup while upgrading
- Multiple configuration files: can be stored to the flash image

Connectivity

- **High-density port connectivity**: up to 10 interface module slots; up to 84 10-GbE ports, 480 Fiber Gigabit, or 480 PoE-enabled ports per 7500 series system
- Jumbo frames: are supported on 10-GbE and GbE ports; up to 9,000 sizes allow high-performance backups and disaster-recovery systems
- 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 OAM: provides a Layer 2 link performance and fault detection monitoring tool, which reduces failover and network convergence times
- Flexible port selection: 100/1000BASE-X auto speed selection, 10/100/1000BASE-T auto speed detection plus 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: using standard IEEE 802.3x, it provides back pressure to reduce congestion in heavy traffic situations
- IEEE 802.3at Power over Ethernet (PoE+) support: provides up to 30 W of power at the power sourcing equipment (PSE)

Performance

- High-speed fully distributed architecture:
 - O 2.4 Tbps backplane supports 1152 Gbps switching capacity maximum, providing enhanced performance and future expansion capability; with dual fabrics, the switch delivers up to 714 Mpps throughput
 - O All switching and routing performed in the I/O modules
 - O Meets today's and future demand of enterprise's bandwidth-intensive applications
- Scalable system design: backplane is designed for bandwidth increases; provides investment protection to support future technologies and higher-speed connectivity
- Flexible chassis selection: enables customers to tailor their product selection to their budget with a choice of six chassis, ranging from a 10-slot to a 2-slot

Resiliency and high availability

- Redundant/Load-sharing fabrics, management, fan assemblies, and power supplies: increase total performance and power available while providing hitless, stateful failover
- All modules are hot swappable: allows replacement of modules without any impact on other modules



Overview

- Dual internal power supply: provides high reliability
- Separate data and control paths: keeps control separated from services and keeps service processing isolated; increases security and performance
- Passive design system: backplane has no active components for increased system reliability
- IEEE 802.3ad Link Aggregation Control Protocol (LACP): supports up to 128 trunks, each with 8 links per trunk; supports static or dynamic groups and user-selectable hashing algorithm
- Intelligent Resilient Framework (IRF): creates virtual resilient switching fabrics, where two or more switches perform as a single Layer 2 switch and Layer 3 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; simplifies network operation by eliminating the complexity of Spanning Tree Protocol, Equal-Cost Multipath (ECMP), or VRRP
- Ring Resiliency Protection Protocol (RRPP): provides standard sub-100 ms recovery for 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
- Hitless patch upgrades: allow patches and new service features to be installed without restarting the equipment, increasing network uptime and facilitating maintenance
- Graceful restart: features are fully supported, including graceful restart for OSPF, IS-IS, BGP, LDP, and RSVP; 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 realize nonstop forwarding (NSF)
- Ultrafast protocol convergence with standard-based failure detection—Bidirectional Forwarding Detection (BFD): enables link connectivity monitoring and reduces network convergence time for 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

Layer 2 switching

- VLAN: supports up to 4096 port or IEEE 802.1Q-based VLANs; also 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; supports four mirroring groups, with an unlimited number of ports per group
- Spanning Tree: fully supports standard IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol
- Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping: effectively control and manage 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 uni-directional 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: RFC 3069 standard, also called VLAN aggregation, is used to save IP address space
- Per-VLAN Spanning Tree Plus (PVST+): allows each virtual LAN (VLAN) to build a separate spanning tree to improve link bandwidth usage in network environments where multiple VLANs exist

Layer 3 services

Address Resolution Protocol (ARP): determines the MAC address of another IP host in the same subnet; supports static ARPs;



Overview

- 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 network
- 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): is a distributed database that provides translation between a domain name and an IP address, which simplifies network design; supports client and server

Layer 3 routing

- Static IPv4 routing: provides simple, manually configured IPv4 routing
- Routing Information Protocol: uses a distance vector algorithm with UDP packets for route determination; supports RIPv1 and RIPv2 routing; includes loop protection
- OSPF: Interior Gateway Protocol (IGP) using link-state protocol for faster convergence; supports ECMP, NSSA, and MD5 authentication for increased security and graceful restart for faster failure recovery
- Intermediate system to intermediate system (IS-IS): Interior Gateway Protocol (IGP) using path vector protocol, 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): Exterior Gateway Protocol (EGP) with path vector protocol uses TCP for enhanced reliability for the route discovery process, reduces bandwidth consumption by advertising only incremental updates, and supports extensive policies for increased flexibility, as well as scales to very large networks
- Policy-based routing: makes routing decisions based on policies set by the network administrator
- IP performance optimization: is a set of tools to improve the performance of IPv4 networks; includes directed broadcasts, customization of TCP parameters, support of ICNP error packets, and extensive display capabilities
- Unicast Reverse Path Forwarding (uRPF): is defined by RFC 3704 and limits erroneous or malicious traffic
- Static IPv6 routing: provides simple, manually configured IPv6 routing
- Dual IP stack: maintains separate stacks for IPv4 and IPv6 to ease 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: is an important element for the transition from IPv4 to IPv6; 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
- 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, thus reducing complexity and increasing 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 Open Application Architecture (OAA) modules, by redirecting traffic; reduces investment and enables higher bandwidth and load sharing; supported for 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 illegal



Overview

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

- RADIUS: eases switch security access administration by using a password authentication server
- TACACS+: is an authentication tool using TCP with encryption of the full authentication request that provides additional security
- Switch management logon security: can require either RADIUS or TACACS+ authentication for secure switch CLI logon
- 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
- Dynamic Host Configuration Protocol (DHCP) snooping: helps ensure that DHCP clients receive IP addresses from authorized DHCP servers and maintain a list of DHCP entries for trusted ports; prevents 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 by using 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: 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:
 - O IEEE 802.1X: is an industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
 - O Web-based authentication: similar to IEEE 802.1X, it provides a browser-based environment to authenticate clients that do not support the IEEE 802.1X supplicant
 - O MAC-based authentication: client is authenticated 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

Convergence

- LLDP-MED (Media Endpoint Discovery): is a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- Multicast Source Discovery Protocol (MSDP): is used for inter-domain multicast applications, allowing multiple PIM-SM domains to interoperate
- Internet Group Management Protocol (IGMP): is used by IP hosts to establish and maintain multicast groups; supports v1, v2, and v3; utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks
- Protocol Independent Multicast (PIM): is used for IPv4 and IPv6 multicast applications; supports PIM Dense Mode (PIM-DM),
 Sparse Mode (PIM-SM), and Source-Specific Mode (PIM-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: is used by IP hosts to establish and maintain multicast groups; supports v1 and v2 and utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv6 multicast networks
- Multicast VLAN: allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, reducing network bandwidth demand
 by 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



Overview

switching architecture; uses the chassis high-speed backplane to access network-related data; increases performance, reduces costs, and simplifies network management

VPN firewall module:

- O Provides enhanced stateful packet inspection and filtering; supports flexible security zones and virtual firewall containment
- O Advanced VPN services with 3DES and AES encryption at high performance and low latency
- O Web content filtering
- O Application prioritization and optimization
- Load-balancing module: local and global server load-balancing module improves traffic distribution using powerful scheduling algorithms, including Layer 4 to 7 services; monitors the health status of servers and firewalls
- NetStream module: provides traffic analysis and statistics capture to allow network administrators to rapidly identify network anomalies and B105 security threats, as well as capacity planning information; supports NetFlow v5 and v9
- Wireless controller module:
 - O Integrated wireless controller module supporting up to 640 access points per module
 - O Supports IEEE 802.11a/b/g/n access points (APs)
 - O Provides full user access management and QoS policies on a per-user basis; supports enterprise-class encryption
 - O Supports radio frequency monitoring and control, managed access point (MAP) control, rogue AP detection, and location policy enforcement

Additional information

- Green initiative support: provides support for RoHS and WEEE regulations
- Low power consumption: is rated as one of the lowest in power consumption in the industry by Miercom independent tests
- Unified, modular Comware operating system with modular architecture: all switching, routing, and security platforms leverage Comware, a common unified modular operating system; provides an easy-to-enhance-and-extend feature set without wholesale changes
- OPEX savings: a common operating system simplifies and streamlines deployment, management, and training, thereby cutting costs as well as reducing the chance for human errors associated with having to manage multiple operating systems across different platforms and network layers

Warranty and support

- 1-year warranty: with advance replacement and 10-calendar-day delivery (available in most countries)
- Electronic and telephone support: limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- Software releases: refer to: www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)



Technical Specifications

HP 7510 Switch Chassis (JD238B)

Included accessories 1 HP 7510 Spare Fan Assembly (JD216A)

2 switch fabric slots **Ports** 10 I/O module slots

Supports a maximum of 84 10-GbE ports or 480 autosensing 10/100/1000 ports or 480 SFP ports, or

a combination

Power supplies 2 power-supply slots

1 minimum power-supplies required (ordered separately)

Fan tray includes: 1 x JD216A

1 fan tray slot

Physical characteristics **Dimensions** 16.54(d) x 17.17(w) x 27.87(h) in. (42.0 x 43.6 x 70.8 cm) (16U height)

> Weight 211 lb. (95.71 kg), Fully loaded chassis, two fabrics, two power supplies,

> > and a full complement of typical I/O modules

Memory and processor **Fabric** MIPS64 @ 600 MHz, 64 MB flash, 512 MB RAM

> I/O Module MIPS64 @ 400 MHz, 512 MB RAM

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

surface mounting only

Performance Throughput 714 million pps

Routing/Switching

capacity

1152 Gbps

Routing table size 256000 entries MAC address table size 512000 entries

99.999% Reliability **Availability**

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

Operating relative

humidity

10% to 95%, non-condensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

5% to 95%, non-condensing relative humidity

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

Electrical characteristics Achieved Miercom Certified Green Award*

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

information.

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

Switches Industry Assessment.

100-120 / 200-240 VAC Voltage

DC Voltage -48 V / -60 V Current 16 / 50 A 1400 W Power output 50 / 60 Hz Frequency



Technical Specifications

Notes Based on common power supply 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 CISPR22 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 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

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

EN 61000-4-11

(serial RS-232C); SNMP Manager; Telnet; terminal interface (serial RS-232C); modem interface; IEEE

802.3 Ethernet MIB; Ethernet Interface MIB

Notes For non-TAA environment, IPS/IDS functionality provided by HP S1200E IPS 7500 Module (JC527A)

For non-TAA environment, IKE/IPsec functionality provided by HP 7500 VPN Firewall Module (JD249A)

IRF functionality not supported on 7502 and 7503-S chassis

Services 3-year, parts only, global next-day advance exchange (HP781E)

3-year, 4-hour onsite, 13x5 coverage for hardware (HP782E)

3-year, 4-hour onsite, 24x7 coverage for hardware (HP785E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HP788E)

3-year, 24x7 SW phone support, software updates (HP791E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support

(HR511E)

Installation with minimum configuration, system-based pricing (UX032E)

4-year, 4-hour onsite, 13x5 coverage for hardware (HP783E) 4-year, 4-hour onsite, 24x7 coverage for hardware (HP786E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HP789E)

4-year, 24x7 SW phone support, software updates (HP792E) 5-year, 4-hour onsite, 13x5 coverage for hardware (HP784E) 5-year, 4-hour onsite, 24x7 coverage for hardware (HP787E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HP790E)

5-year, 24x7 SW phone support, software updates (HP793E)

3 Yr 6 hr Call-to-Repair Onsite (HP795E) 3 Yr 6 hr Call-to-Repair Onsite (HP794E) 5 Yr 6 hr Call-to-Repair Onsite (HP796E)

1-year, 4-hour onsite, 13x5 coverage for hardware (HR509E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR510E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR513E) 1-year, 24x7 software phone support, software updates (HR512E)



Technical Specifications

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 7506-V Switch Chassis (JD241B)

Included accessories 1 HP 7506-V Spare Fan Assembly (JD215A)

Ports 2 switch fabric slots

6 I/O module slots

Supports a maximum of 52 10-GbE ports or 288 autosensing 10/100/1000 ports or 288 SFP ports, or

a combination

Power supplies 2 power-supply slots

1 minimum power-supplies required (ordered separately)

includes: 1 x JD215A Fan tray

1 fan tray slot

Physical characteristics **Dimensions** 16.54(d) x 17.17(w) x 36.61(h) in. (42.0 x 43.6 x 93.0 cm) (21U height)

> Weight 222 lb. (100.7 kg), Fully loaded chassis, two fabrics, two power supplies,

> > and a full complement of typical I/O modules

Memory and processor **Fabric** MIPS64 @ 600 MHz, 64 MB flash, 512 MB RAM

> I/O Module MIPS64 @ 400 MHz, 512 MB RAM

> > 768 Gbps

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

surface mounting only

Performance Throughput 488 million pps

Routing/Switching

capacity

Routing table size 256000 entries

MAC address table size 512000 entries

99.999% Reliability **Availability**

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

Operating relative

humidity

10% to 95%, non-condensing

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

temperature

Nonoperating/Storage

relative humidity

5% to 95%, non-condensing

Acoustic Low-speed fan: 52.1 dB, High-speed fan: 56.2 dB

Achieved Miercom Certified Green Award* Electrical characteristics

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

information.

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

Switches Industry Assessment.

100-120 / 200-240 VAC Voltage

-48 V / -60 V DC Voltage



Technical Specifications

Safety

 Current
 16 / 50 A

 Power output
 1400 W

 Frequency
 50 / 60 Hz

Notes Based on common power supply 1400 W (AC/DC) 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 CISPR22 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 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 For non-TAA environment, IPS/IDS functionality provided by HP \$1200E IPS 7500 Module (JC527A)

For non-TAA environment, IKE/IPsec functionality provided by HP 7500 VPN Firewall Module (JD249A)

IRF functionality not supported on 7502 and 7503-S chassis

Services 3-year, parts only, global next-day advance exchange (UW999E)

3-year, 4-hour onsite, 13x5 coverage for hardware (UX001E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UX004E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UX007E)

3-year, 24x7 SW phone support, software updates (UX010E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR514E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR515E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support

(HR516E)

Installation with minimum configuration, system-based pricing (UX032E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UX002E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UX005E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX008E)

4-year, 24x7 SW phone support, software updates (UX011E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UX003E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UX006E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX009E)

5-year, 24x7 SW phone support, software updates (UX012E)

3 Yr 6 hr Call-to-Repair Onsite (UX013E) 4 Yr 6 hr Call-to-Repair Onsite (UX014E)



Technical Specifications

5 Yr 6 hr Call-to-Repair Onsite (UX015E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR518E) 1-year, 24x7 software phone support, software updates (HR517E)

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 7506 Switch Chassis (JD239B)

Included accessories 1 HP 7506 Spare Fan Assembly (JD214A)

Ports 2 switch fabric slots

6 I/O module slots

Supports a maximum of 52 10-GbE ports or 288 autosensing 10/100/1000 ports or 288 SFP ports, or

a combination

Power supplies 2 power-supply slots

1 minimum power-supplies required (ordered separately)

Fan tray includes: 1 x JD214A

1 fan tray slot

Physical characteristics Dimensions $16.54(d) \times 17.17(w) \times 22.64(h)$ in. $(42.0 \times 43.6 \times 57.5 \text{ cm}) (13U \text{ height})$

Weight 207 lb. (93.9 kg), Fully loaded chassis, two fabrics, two power supplies, and

a full complement of typical I/O modules

Memory and processor Fabric MIPS64 @ 600 MHz, 64 MB flash, 512 MB RAM

I/O Module MIPS64 @ 400 MHz, 512 MB RAM

768 Gbps

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

surface mounting only

Performance Throughput 488 million pps

Routing/Switching

capacity

Routing table size 256000 entries MAC address table size 512000 entries

Reliability Availability 99.999%

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

Operating relative

humidity

10% to 95%, non-condensing

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

temperature

Nonoperating/Storage

5% to 95%, non-condensing

relative humidity

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

Electrical characteristics Achieved Miercom Certified Green Award*

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



Technical Specifications

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

Switches Industry Assessment.

Voltage 100-120 / 200-240 VAC

 DC Voltage
 -48 V / -60 V

 Current
 16 / 50 A

 Power output
 1400 W

 Frequency
 50 / 60 Hz

Notes Based on common power supply 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 CISPR22 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 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 For non-TAA environment, IPS/IDS functionality provided by HP \$1200E IPS 7500 Module (JC527A)

For non-TAA environment, IKE/IPsec functionality provided by HP 7500 VPN Firewall Module (JD249A)

IRF functionality not supported on 7502 and 7503-S chassis

Services 3-year, parts only, global next-day advance exchange (UW999E)

3-year, 4-hour onsite, 13x5 coverage for hardware (UX001E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UX004E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UX007E)

3-year, 24x7 SW phone support, software updates (UX010E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR514E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR515E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support

(HR516E)

Installation with minimum configuration, system-based pricing (UX032E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UX002E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UX005E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX008E)

4-year, 24x7 SW phone support, software updates (UX011E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UX003E)



Technical Specifications

5-year, 4-hour onsite, 24x7 coverage for hardware (UX006E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX009E)

5-year, 24x7 SW phone support, software updates (UX012E)

3 Yr 6 hr Call-to-Repair Onsite (UX013E) 4 Yr 6 hr Call-to-Repair Onsite (UX014E) 5 Yr 6 hr Call-to-Repair Onsite (UX015E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR518E) 1-year, 24x7 software phone support, software updates (HR517E)

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 7503 Switch Chassis (JD240B)

Included accessories 1 HP 7503 Spare Fan Assembly (JD212A)

Ports 2 switch fabric slots

3 I/O module slots

Supports a maximum of 28 10-GbE ports or 144 autosensing 10/100/1000 ports or 144 SFP ports, or

a combination

Power supplies 2 power-supply slots

1 minimum power-supplies required (ordered separately)

includes: 1 x JD212A Fan tray

1 fan tray slot

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

> 147 lb. (66.68 kg), Fully loaded chassis, two fabrics, two power supplies, Weight

> > and a full complement of typical I/O modules

MIPS64 @ 600 MHz, 64 MB flash, 512 MB RAM Memory and processor Fabric

> MIPS64 @ 400 MHz, 512 MB RAM I/O Module

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

surface mounting only

Performance Throughput 274 million pps

> 480 Gbps Routing/Switching

capacity

256000 entries Routing table size MAC address table size 512000 entries

99.999% Reliability **Availability**

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

Operating relative

humidity

10% to 95%, non-condensing

Nonoperating/Storage

-40°F to 158°F (-40°C to 70°C)

temperature

Nonoperating/Storage

5% to 95%, non-condensing

relative humidity

Acoustic

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

Achieved Miercom Certified Green Award*

Electrical characteristics

Technical Specifications

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

Description The H3C \$7506E (HP 7506) is Certified Green in the 2009 Miercom Green

Switches Industry Assessment.

Voltage 100-120 / 200-240 VAC

 DC Voltage
 -48 V / -60 V

 Current
 16 / 50 A

 Power output
 1400 W

 Frequency
 50 / 60 Hz

Notes Based on common power supply 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 CISPR22 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 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 For non-TAA environment, IPS/IDS functionality provided by HP \$1200E IPS 7500 Module (JC527A)

For non-TAA environment, IKE/IPsec functionality provided by HP 7500 VPN Firewall Module (JD249A)

IRF functionality not supported on 7502 and 7503-S chassis

Services 3-year, parts only, global next-day advance exchange (HP799E)

3-year, 4-hour onsite, 13x5 coverage for hardware (HP800E) 3-year, 4-hour onsite, 24x7 coverage for hardware (HP803E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HP806E)

3-year, 24x7 SW phone support, software updates (HP809E)

Installation with minimum configuration, system-based pricing (UX032E)

4-year, 4-hour onsite, 13x5 coverage for hardware (HP801E) 4-year, 4-hour onsite, 24x7 coverage for hardware (HP804E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HP807E)

4-year, 24x7 SW phone support, software updates (HP810E) 5-year, 4-hour onsite, 13x5 coverage for hardware (HP802E) 5-year, 4-hour onsite, 24x7 coverage for hardware (HP805E)



Technical Specifications

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HP808E)

5-year, 24x7 SW phone support, software updates (HP811E)

3 Yr 6 hr Call-to-Repair Onsite (HP812E) 4 Yr 6 hr Call-to-Repair Onsite (HP813E) 5 Yr 6 hr Call-to-Repair Onsite (HP814E)

1-year, 4-hour onsite, 13x5 coverage for hardware (HR519E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR520E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR523E) 1-year, 24x7 software phone support, software updates (HR522E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR521E)

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 7503-S Switch Chassis with 1 Fabric Slot (JD243B)

Included accessories 1 HP 7503-S Spare Fan Assembly (JC672A)

Ports 1 switch fabric slot

2 I/O module slots

Supports a maximum of 16 10-GbE ports or 120 autosensing 10/100/1000 ports or 120 SFP ports, or

a combination

Power supplies 2 power-supply slots

1 minimum power-supplies required (ordered separately)

Fan tray includes: 1 x JC672A

1 fan tray slot

Physical characteristics Dimensions 16.54(d) x 17.17(w) x 6.89(h) in. (42.0 x 43.6 x 17.5 cm) (4U height)

Weight 59 lb. (26.76 kg), Fully loaded chassis, one fabric, two power supplies, and

a full complement of typical I/O modules

Memory and processor Fabric MIPS64 @ 400 MHz, 64 MB flash, 512 MB RAM

I/O Module MIPS64 @ 400 MHz, 512 MB RAM

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

surface mounting only

Performance Throughput 107 million pps

Routing/Switching

capacity

144 Gbps

Routing table size 256000 entries MAC address table size 512000 entries

Reliability Availability 99.999%

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

Operating relative

10% to 95%, non-condensing

humidity

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

temperature



Technical Specifications

Nonoperating/Storage

5% to 95%, non-condensing

relative humidity

Acoustic High-speed fan: 56.7 dB

Electrical characteristics

Achieved Miercom Certified Green Award*

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

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

Switches Industry Assessment.

Voltage 100-120 / 200-240 VAC

DC Voltage -48 V / -60 V Current 5 / 10 A 300 W Power output 50 / 60 Hz Frequency

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

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 CISPR22 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 EN 61000-4-5 Surge 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 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 For non-TAA environment, IPS/IDS functionality provided by HP S1200E IPS 7500 Module (JC527A)

For non-TAA environment, IKE/IPsec functionality provided by HP 7500 VPN Firewall Module (JD249A)

IRF functionality not supported on 7502 and 7503-S chassis

Services 3-year, parts only, global next-day advance exchange (HP799E)

3-year, 4-hour onsite, 13x5 coverage for hardware (HP800E) 3-year, 4-hour onsite, 24x7 coverage for hardware (HP803E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HP806E)

3-year, 24x7 SW phone support, software updates (HP809E)

Installation with minimum configuration, system-based pricing (UX032E)

4-year, 4-hour onsite, 13x5 coverage for hardware (HP801E)



Technical Specifications

4-year, 4-hour onsite, 24x7 coverage for hardware (HP804E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HP807E)

4-year, 24x7 SW phone support, software updates (HP810E) 5-year, 4-hour onsite, 13x5 coverage for hardware (HP802E) 5-year, 4-hour onsite, 24x7 coverage for hardware (HP805E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HP808E)

5-year, 24x7 SW phone support, software updates (HP811E)

3 Yr 6 hr Call-to-Repair Onsite (HP812E) 4 Yr 6 hr Call-to-Repair Onsite (HP813E) 5 Yr 6 hr Call-to-Repair Onsite (HP814E)

1-year, 4-hour onsite, 13x5 coverage for hardware (HR519E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR520E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR523E) 1-year, 24x7 software phone support, software updates (HR522E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR521E)

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 7502 Switch Chassis (JD242B)

Included accessories 1 HP 7502 Spare Fan Assembly (JD213A)

Ports 2 MPU (for management modules) slots

2 I/O module slots

Supports a maximum of 16 10-GbE ports or 96 autosensing 10/100/1000 ports or 96 SFP ports, or a

combination

Power supplies 2 power-supply slots

1 minimum power-supplies required (ordered separately)

Fan tray includes: 1 x JD213A

1 fan tray slot

Physical characteristics Dimensions 16.54(d) x 17.17(w) x 6.89(h) in. (42.0 x 43.6 x 17.5 cm) (4U height)

Weight 59 lb. (26.76 kg), Fully loaded chassis, two management modules, two

power supplies, and a full complement of typical I/O modules

Memory and processor Fabric MIPS64 @ 600 MHz, 64 MB flash, 512 MB RAM

I/O Module MIPS64 @ 400 MHz, 512 MB RAM

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

surface mounting only

Performance Throughput 143 million pps

Routing/Switching 192 Gbps

capacity

Routing table size 256000 entries
MAC address table size 512000 entries

Reliability Availability 99.999%

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



Technical Specifications

Operating relative

10% to 95%, non-condensing

humidity

Nonoperating/Storage

-40°F to 158°F (-40°C to 70°C)

temperature

Nonoperating/Storage

5% to 95%, non-condensing

relative humidity

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

Electrical characteristics

Achieved Miercom Certified Green Award*

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

information.

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

Switches Industry Assessment.

Voltage 100-120 / 200-240 VAC

 DC Voltage
 -48 V / -60 V

 Current
 5 / 10 A

 Power output
 300 W

 Frequency
 50 / 60 Hz

Notes Based on common power supply 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 CISPR22 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 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 For non-TAA environment, IPS/IDS functionality provided by HP S1200E IPS 7500 Module (JC527A)

For non-TAA environment, IKE/IPsec functionality provided by HP 7500 VPN Firewall Module (JD249A)

IRF functionality not supported on 7502 and 7503-S chassis

Services 3-year, parts only, global next-day advance exchange (HP799E)

3-year, 4-hour onsite, 13x5 coverage for hardware (HP800E)



Technical Specifications

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3-year, 4-hour onsite, 24x7 coverage for hardware (HP803E)
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HP806E)
3-year, 24x7 SW phone support, software updates (HP809E)
Installation with minimum configuration, system-based pricing (UXO32E)
4-year, 4-hour onsite, 13x5 coverage for hardware (HP801E)
4-year, 4-hour onsite, 24x7 coverage for hardware (HP804E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HP807E)
4-year, 24x7 SW phone support, software updates (HP810E)
5-year, 4-hour onsite, 13x5 coverage for hardware (HP802E)
5-year, 4-hour onsite, 24x7 coverage for hardware (HP805E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HP808E)
5-year, 24x7 SW phone support, software updates (HP811E)
3 Yr 6 hr Call-to-Repair Onsite (HP812E)
4 Yr 6 hr Call-to-Repair Onsite (HP813E)
5 Yr 6 hr Call-to-Repair Onsite (HP814E)
1-year, 4-hour onsite, 13x5 coverage for hardware (HR519E)
1-year, 4-hour onsite, 24x7 coverage for hardware (HR520E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR523E)
1-year, 24x7 software phone support, software updates (HR522E)
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates
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Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Standards and protocols

(HR521E)

(applies to all products in series)

local fill sales office.	
BGP	MIBs
RFC 1771 BGPv4	RFC 1156 (TCP/IP MIB)
RFC 1772 Application of the BGP	RFC 1157 A Simple Network Management Protocol
RFC 1965 BGP4 confederations	(SNMP)
RFC 1997 BGP Communities Attribute	RFC 1215 A Convention for Defining Traps for use
RFC 1998 PPP Gandalf FZA Compression Protocol	with the SNMP
RFC 2385 BGP Session Protection via TCP MD5	RFC 1229 Interface MIB Extensions
RFC 2439 BGP Route Flap Damping	RFC 1493 Bridge MIB
RFC 2796 BGP Route Reflection	RFC 1573 SNMP MIB II
RFC 2858 BGP-4 Multi-Protocol Extensions	RFC 1643 Ethernet MIB
RFC 2918 Route Refresh Capability	RFC 1657 BGP-4 MIB
RFC 3065 Autonomous System Confederations for	RFC 1724 RIPv2 MIB
BGP	RFC 1757 Remote Network Monitoring MIB
RFC 3392 Capabilities Advertisement with BGP-4	RFC 1850 OSPFv2 MIB
RFC 4271 A Border Gateway Protocol 4 (BGP-4)	RFC 1907 SNMPv2 MIB
RFC 4272 BGP Security Vulnerabilities Analysis	RFC 2011 SNMPv2 MIB for IP
RFC 4273 Definitions of Managed Objects for	RFC 2012 SNMPv2 MIB for TCP
BGP-4	RFC 2013 SNMPv2 MIB for UDP
RFC 4274 BGP-4 Protocol Analysis	RFC 2096 IP Forwarding Table MIB
RFC 4275 BGP-4 MIB Implementation Survey	RFC 2233 Interfaces MIB
RFC 4276 BGP-4 Implementation Report	RFC 2452 IPV6-TCP-MIB
RFC 4277 Experience with the BGP-4 Protocol	RFC 2454 IPV6-UDP-MIB
RFC 4360 BGP Extended Communities Attribute	RFC 2465 IPv6 MIB
RFC 4456 BGP Route Reflection: An Alternative to	RFC 2466 ICMPv6 MIB
Full Mesh Internal BGP (IBGP)	RFC 2571 SNMP Framework MIB
RFC 5291 Outbound Route Filtering Capability for	RFC 2572 SNMP-MPD MIB

Technical Specifications

GP-4

RFC 5292 Address-Prefix-Based Outbound Route

Filter for BGP-4

Denial of service protection

RFC 2267 Network Ingress Filtering

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 1902 (SNMPv2)

RFC 2271 FrameWork

RFC 2579 (SMIv2 Text Conventions)

RFC 2580 (SMIv2 Conformance)

RFC 2819 (RMON groups Alarm, Event, History

and Statistics only)

HTTP, SSHv1, and Telnet

Multiple Configuration Files

Multiple Software Images

SSHv1/SSHv2 Secure Shell

TACACS/TACACS+

Web UI

General protocols

IEEE 802.1ad Q-in-Q

IEEE 802.1ag Service Layer OAM

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 802.3u 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 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 2925 Ping MIB

RFC 2932IP (Multicast Routing MIB)

RFC 2933 IGMP MIB

RFC 2934 Protocol Independent Multicast MIB for

IPv4

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



Technical Specifications

ons	
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	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) Using Label Distribution Protocol (LDP) Signaling RFC 5036 LDP Specification
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 1519 CIDR RFC 1531 Dynamic Host Configuration Protocol RFC 1533 DHCP Options and BOOTP Vendor Extensions 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 2030 Simple Network Time Protocol (SNTP) v4 RFC 2082 RIP-2 MD5 Authentication RFC 2091 Trigger RIP RFC 2131 DHCP	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)
RFC 2138 Remote Authentication Dial In User Service (RADIUS) RFC 2236 IGMP Snooping RFC 2338 VRRP RFC 2453 RIPv2 RFC 2644 Directed Broadcast Control RFC 2763 Dynamic Name-to-System ID mapping support RFC 2784 Generic Routing Encapsulation (GRE) RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 2966 Domain-wide Prefix Distribution with Two-Level IS-IS RFC 2973 IS-IS Mesh Groups	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



Technical Specifications

RFC 3022 Traditional IP Network Address
Translator (Traditional NAT)
RFC 3277 IS-IS Transient Blackhole Avoidance
RFC 3567 Intermediate System to Intermediate
System (IS-IS) Cryptographic Authentication
RFC 3719 Recommendations for Interoperable
Networks using Intermediate System to Intermediate
System (IS-IS)
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 3847 Restart signaling for IS-IS RFC 4251 The Secure Shell (SSH) Protocol Architecture

RFC 4884 Extended ICMP to Support Multi-Part Messages

RFC 4941 Privacy Extensions for Stateless Address Autoconfiguration in IPv6

RFC 5130 A Policy Control Mechanism in IS-IS Using Administrative Tags

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 (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 Listener

Discovery Protocol Version 2 (MLDv2) for

Carrage Carrage Control of the Carrage Carrage

Source-Specific Multicast

RFC 4605 IGMP/MLD Proxying

RFC 4607 Source-Specific Multicast for IP

RFC 4610 Anycast-RP Using Protocol Independent Multicast (PIM)

RFC 5059 Bootstrap Router (BSR) Mechanism for Protocol Independent Multicast (PIM)

OSPFv2

RFC 4061 Benchmarking Basic OSPF Single Router

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

QoS/CoS

IEEE 802.1P (CoS)

RFC 1349 Type of Service in the Internet Protocol Suite

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)

Security

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 Tunnel Protocol Support

RFC 2868 RADIUS Attributes for Tunnel Protocol Support

RFC 2869 RADIUS Extensions



Technical Specifications

IPv6 RFC 1886 DNS Extension for IPv6 RFC 1887 IPv6 Unicast Address Allocation Architecture	Access Control Lists (ACLs) Guest VLAN for 802.1x MAC Authentication Port Security
RFC 1981 IPv6 Path MTU Discovery	SSHv1/SSHv2 Secure Shell
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- configuration RFC 2463 ICMPv6 RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2473 Generic Packet Tunneling in IPv6 RFC 2526 Reserved IPv6 Subnet Anycast Addresses RFC 2529 Transmission of IPv6 Packets over IPv4 RFC 2545 Use of MP-BGP-4 for IPv6 RFC 2553 Basic Socket Interface Extensions for	RFC 1828 IP Authentication using Keyed MD5 RFC 1829 The ESP DES-CBC Transform RFC 2085 HMAC-MD5 IP Authentication with
IPv6 RFC 2710 Multicast Listener Discovery (MLD) for	Replay Prevention RFC 2401 IP Security Architecture
IPv6 RFC 2740 OSPFv3 for IPv6	RFC 2402 IP Authentication Header RFC 2406 IP Encapsulating Security Payload
RFC 2767 Dual stacks IPv46 & IPv6 RFC 2893 Transition Mechanisms for IPv6 Hosts	RFC 2410 - The NULL Encryption Algorithm and its use with IPsec
and Routers RFC 3056 Connection of IPv6 Domains via IPv4 Clouds	RFC 2411 IP Security Document Roadmap
RFC 3307 IPv6 Multicast Address Allocation 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

HP A7500 Switch Series	Modules	
accessories	HP 7500 48-port 100Base-FX SA Module	JD197B
	HP 7500 48-port 10/100Base-TX PoE-upgradable SA Module	JD198B
	HP 7500 48-port Gig-T PoE-upgradable SA Module	JD199B
	HP 7500 16-port GbE SFP / 8-port GbE Combo SA Module	JC667A
	HP 7500 20-port Gig-T / 4-port GbE PoE-upgradable Combo SA Module	JC668A
	HP 7500 2-port 10-GbE XFP SC Module	JD201A
	HP 7500 24-port GbE SFP SC Module	JD203B
	HP 7500 24-port Gig-T SC Module	JD204B
	HP 7500 24-port GbE SFP/2-port 10-GbE XFP SC Module	JD205A
	HP 7500 12-port GbE SFP SC Module	JD207A
	HP 7500 24-port Gig-T/2-port 10-GbE XFP SC Module	JD206A
	HP 7500 48-port Gig-T PoE-upgradable SC Module	JD210A
	HP 7500 48-port GbE SFP SC Module	JD211B
	HP 7500 16-port GbE SFP/8-port GbE Combo SC Module	JD223A
	HP 7500 40-port Gig-T/8-port GbE SFP PoE-upgradable SC Module	JD228B
	HP 7500 8-port 10-GbE SFP+ SC Module	JF290A
	HP 7500 20-port Gig-T / 4-port GbE Combo PoE-upgradable SC Module	JC669A
	HP 7500 8-port 10-GbE XFP SD Module	JD191A JD229B
	HP 7500 48-port Gig-T PoE+ SD Module	JD2298 JD230A
	HP 7500 24-port GbE SFP/2-port 10-GbE XFP SD Module HP 7500 16-port GbE SFP/8-port GbE Combo SD Module	JD230A JD234A
	HP 7500 4-port 10-GbE XFP SD Module	JD234A JD235A
	HP 7500 2-port 10-GbE XFP SD Module	JD235A JD236A
	HP 7500 48-port GbE SFP SD Module	JD237A
	HP 7500 12-port GbE SFP EA Module	JD202A
	HP 7500 1-port 10-GbE XFP EA Module	JD200A
	HP 7500 48-port GbE SFP EB Module	JD221A
	HP 7500 16-port GbE SFP/8-port GbE Combo EB Module	JD231A
	HP 7500 4-port 10-GbE XFP EB Module	JD232A
	HP 7500 2-port 10-GbE XFP EB Module	JD233A
	Transceivers	
	HP X124 1G SFP LC LH40 1310nm Transceiver	JD061A
	HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HP X125 1G SFP LC LH70 Transceiver	JD063B
	HP X125 1G SFP RJ45 T Transceiver	JD089B
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
	HP X120 1G SFP LC LH100 Transceiver	JD103A
	HP X170 1G SFP LC LH70 1550 Transceiver	JD109A
	HP X170 1G SFP LC LH70 1570 Transceiver	JD110A
	HP X170 1G SFP LC LH70 1590 Transceiver	JD111A
	HP X170 1G SFP LC LH70 1610 Transceiver	JD112A
	HP X170 1G SFP LC LH70 1470 Transceiver	JD113A
	HP X170 1G SFP LC LH70 1490 Transceiver	JD114A



HP X170 1G SFP LC LH70 1510 Transceiver	JD115A
HP X170 1G SFP LC LH70 1530 Transceiver	JD116A
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X110 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X130 10G XFP LC ZR Transceiver	JD107A
HP X130 10G XFP LC LR Transceiver	JD108B
HP X130 10G XFP LC SR Transceiver	JD117B
HP X135 10G XFP LC ER Transceiver	JD121A
HP X130 SFP+ LC SR Transceiver	JD092B
HP X130 SFP+ LC LRM Transceiver	JD093B
HP X130 SFP+ LC LR Transceiver	JD094B
HP X240 SFP+ SFP+ 0.65 m Direct Attach Cable	JD095B
HP X240 SFP+ SFP+ 1.2 m Direct Attach Cable	JD096B
HP X240 SFP+ SFP+ 3 m Direct Attach Cable	JD097B
HP X240 SFP+ SFP+ 5m Direct Attach Cable	JG081B
HP X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver	JG226A
HP 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
HP 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
HP X130 10G SFP+ LC ER 40km Transceiver	JG234A
Cables	
HP 50 m Multimode OM3 LC/LC Optical Cable	AJ839A
HP 30 m Multimode OM3 LC/LC Optical Cable	AJ838A
HP 15 m Multimode OM3 LC/LC Optical Cable	AJ837A
HP 5 m Multimode OM3 LC/LC Optical Cable	AJ836A
HP 2 m Multimode OM3 LC/LC Optical Cable	AJ835A
HP 1 m Multimode OM3 LC/LC Optical Cable	AJ834A
HP 0.5 m Multimode OM3 LC/LC Optical Cable	AJ833A
NEW HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable	BK837A
NEW HP 1 m PremierFlex OM3+ LC/LC Optical Cable	BK838A
NEW HP 2 m PremierFlex OM3+ LC/LC Optical Cable	BK839A
NEW HP 5 m PremierFlex OM3+ LC/LC Optical Cable	BK840A
NEW HP 15 m PremierFlex OM3+ LC/LC Optical Cable	BK841A
NEW HP 30 m PremierFlex OM3+ LC/LC Optical Cable	BK842A
NEW HP 50 m PremierFlex OM3+ LC/LC Optical Cable	BK843A
License	



HP WX Blade 128 AP License Upgrade	JD464B
WLAN	
HP 7500 Access Controller Module	JD440A
Appliance	
HP TippingPoint S1200N IPS A7500 Module	JC527A
Memory	
HP 7500 48-Port PoE DIMM	JD192B
HP 7500 24-port PoE DIMM	JC671A
HP 7500 1G Compact Flash Card	JC684A
HP 7500 512M Compact Flash Card	JC685A
HP 7500 256M Compact Flash Card	JC686A
HP 7510 Switch Chassis (JD238B)	
HP 7500 384Gbps Fabric Module with 2 XFP Ports	JD193B
HP 7500 384Gbps Fabric Module	JD194B
HP 7500 384Gbps Advanced Fabric Module	JD195A
HP 7500 768Gbps Fabric Module	JD220A
HP 7500 1400W DC Power Supply	JD208A
HP 7500 1400W AC Power Supply	JD218A
HP 7500 2800W AC Power Supply	JD219A
HP 7500 6000W AC Power Supply	JD217/A
HP 7510 Spare Fan Assembly	JD216A
HP 7506-V Switch Chassis (JD241B)	JDZTO/
HP 7500 384Gbps Fabric Module with 2 XFP Ports	JD193B
HP 7500 384Gbps Fabric Module	JD173B
HP 7500 384Gbps Advanced Fabric Module	JD1748 JD195A
HP 7500 768Gbps Fabric Module	JD173A JD220A
•	JD220A JD208A
HP 7500 1400W AC Power Supply	JD208A JD218A
HP 7500 1400W AC Power Supply	JD218A JD219A
HP 7500 2800W AC Power Supply	JD219A JD227A
HP 7500 6000W AC Power Supply	
HP A7506-V Spare Fan Assembly	JD215A
HP 7506 Switch Chassis (JD239B)	ID 1 0 2 D
HP 7500 384Gbps Fabric Module with 2 XFP Ports	JD193B
HP 7500 384Gbps Fabric Module	JD194B
HP 7500 384Gbps Advanced Fabric Module	JD195A
HP 7500 768Gbps Fabric Module	JD220A
HP 7500 1400W DC Power Supply	JD208A
HP 7500 1400W AC Power Supply	JD218A
HP 7500 2800W AC Power Supply	JD219A
HP 7500 6000W AC Power Supply	JD227A
HP A7506 Spare Fan Assembly	JD214A
HP 7503 Switch Chassis (JD240B)	ID 1005
HP 7500 384Gbps Fabric Module with 2 XFP Ports	JD193B
HP 7500 384Gbps Fabric Module	JD194B
HP 7500 384Gbps Advanced Fabric Module	JD195A
HP 7500 768Gbps Fabric Module	JD220A



LID 7500 1 400W DC D	100004
HP 7500 1400W DC Power Supply	JD208A
HP 7500 1400W AC Power Supply	JD218A
HP 7500 2800W AC Power Supply	JD219A
HP 7500 6000W AC Power Supply	JD227A
HP 7503 Spare Fan Assembly	JD212A
HP 7503-S Switch Chassis with 1 Fabric Slot (JD243B)	
HP 7503-S 144Gbps Fabric/Main Processing Unit with 16 GbE SFP Ports and 8 GbE Combo Ports	JD222A
HP 7503-S 144 Gbps Fabric / Main Processing Unit with PoE-upgradable 20p Gig-T	JC666A
/ 4p GbE Combo	JCOOOA
HP 7503-S 144 Gbps TAA Fabric/Main Processing Unit with 16 GbE SFP Ports and 8	JC698A
GbE Combo Ports	
HP 7500 650W AC Power Supply	JD217A
HP 7500 650W DC Power Supply	JD209A
HP 7502 300W AC Power Supply	JD226A
HP 7502 300W DC Power Supply	JD225A
HP RPS 800 Redundant Power Supply	JD183A
HP 7503-S Spare Fan Assembly	JC672A
HP 7502 Switch Chassis (JD242B)	
HP 7502 Main Processing Unit	JD196A
HP 7502 TAA-compliant Main Processing Unit	JC697A
HP 7500 650W AC Power Supply	JD217A
HP 7500 650W DC Power Supply	JD209A
HP 7502 300W AC Power Supply	JD226A
HP 7502 300W DC Power Supply	JD225A
HP RPS 800 Redundant Power Supply	JD183A
HP 7502 Spare Fan Assembly	JD213A
7. 7. 002 oparo ram mooning	35210/1



Accessory Product Details

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

HP 7500 48-port	Ports	48 SFP 100BASE-FX ports (IEEE 802.3u Type 100BASE-FX); Duplex: full only	
100BASE-FX Module (JD197B)	Physical characteristics	Dimensions	13.98(d) x 14.84(w) x 1.57(h) in. (35.5 x 37.7 x 4 cm)
		Weight	6.72 lb. (3.05 kg)
	Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sale office.	
HP 7500 48-port 10/100BASE-T Module	Ports	48 RJ-45 autosensing 10/100 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3af PoE); Duplex: half or full	
(JD198B)	Physical characteristics	Dimensions	$13.98(d) \times 14.84(w) \times 1.57(h)$ in. (35.5 x 37.7 x 4 cm)
		Weight	6.37 lb. (2.89 kg)
	Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	
HP 7500 48-port Gig-T PoE-ready Module (JD199B)	Ports	48 RJ-45 autosensing 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	Physical characteristics	Dimensions	$13.98(d) \times 14.84(w) \times 1.57(h)$ in. (35.5 x 37.7 x 4 cm)
		Weight	6.81 lb. (3.09 kg)
	Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	



Accessory Product Details

HP 7500 16-port GbE Ports 16 SFP 1000 Mbps ports

SFP / 8-port GbE Combo SA Module (JC667A) 8 dual-personality ports; Each composed of a 10/100/1000Base-T Gigabit

Ethernet port and an SFP port, which cannot be simultaneously used

Physical characteristics Dimensions $13.98(d) \times 14.84(w) \times 1.57(h)$ in. $(35.5 \times 37.7 \times 10^{-4})$

4 cm)

Weight 6.11 lb. (2.77 kg)

Services Refer to the HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 20-port Gig-T / Ports

4-port GbE PoEupgradable Combo SA Module (JC668A) 20 RJ-45 auto-negotiating 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-

T, IEEE 802.3af PoE); Duplex: 10BASE-T/100BASE-TX: half or full;

1000BASE-T: full only

4 dual-personality ports; Each composed of a 10/100/1000Base-T Gigabit

Ethernet port and an SFP port, which cannot be simultaneously used

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in. (35.5 x 37.7 x

4 cm)

Weight 6.17 lb. (2.8 kg)

Services Refer to the HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 2-port 10GbE

XFP Module (JD201A)

Ports

2 XFP 10-GbE ports; Duplex: full only

Physical characteristics Dimension

Dimensions $13.98(d) \times 14.84(w) \times 1.57(h)$ in.

 $(35.5 \times 37.7 \times 4 \text{ cm})$

Weight 6.5 lb. (2.95 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 24-port GbE

SFP Module (JD203B)

Ports

24 SFP 100/1000 Mbps ports

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.13 lb. (2.78 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales



Accessory Product Details

HP 7500 24-port Gig-T Ports

Module (JD204B)

24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE

802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex:

10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

 $(35.5 \times 37.7 \times 4 \text{ cm})$

Weight 6 lb. (2.72 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 24-port GbE SFP / 2-port 10GbE XFP

Module (JD205A)

Ports 24 SFP 100/1000 Mbps ports

Physical characteristics

2 XFP 10-GbE ports; Duplex: full only

Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.5 lb. (2.95 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 12-port GbE

SFP Module (JD207A)

Ports 12 SFP 100/1000 Mbps ports

Physical characteristics Dimensions 13.98(d) x 1.18(w) x 1.57(h) in.

 $(35.5 \times 3 \times 4 \text{ cm})$

Weight 5.86 lb. (2.66 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 24-port Gig-T / Ports

2-port 10GbE XFP Module (JD206A) 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE

802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex:

10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

2 XFP 10-GbE ports; Duplex: full only

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.44 lb. (2.92 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales



Accessory Product Details

HP 7500 48-port Gig-T

Module (JD210A)

Ports

48 RJ-45 autosensing 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T,

IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T:

full only

Physical characteristics

Dimensions $13.98(d) \times 14.84(w) \times 1.57(h)$ in.

 $(35.5 \times 37.7 \times 4 \text{ cm})$

6.81 lb. (3.09 kg) Weight

Services

Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 48-port GbE

SFP Module (JD211B)

Ports 48 SFP 100/1000 Mbps ports

Physical characteristics **Dimensions** $13.98(d) \times 14.84(w) \times 1.57(h)$ in.

 $(35.5 \times 37.7 \times 4 \text{ cm})$

6.7 lb. (3.04 kg) Weight

Services Refer to the HP website at www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 24-port GbE

SFP Module with 8

Combo Ports (JD223A)

16 SFP 100/1000 Mbps ports Ports

8 dual-personality ports; 1000M Combo ports (SFP or RJ-45)

Physical characteristics **Dimensions** $13.98(d) \times 14.84(w) \times 1.57(h)$ in.

 $(35.5 \times 37.7 \times 4 \text{ cm})$

Weight 6.11 lb. (2.77 kg)

Refer to the HP website at www.hp.com/networking/services for details on Services

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 40-port Gig-T / Ports

8-port SFP PoE-ready Module (JD228B)

40 RJ-45 autosensing 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T,

IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T:

full only

8 SFP 100/1000 Mbps ports

 $13.98(d) \times 14.84(w) \times 1.57(h)$ in. Physical characteristics **Dimensions**

 $(35.5 \times 37.7 \times 4 \text{ cm})$

6.66 lb. (3.02 kg) Weight

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales



Accessory Product Details

HP 7500 8-port 10G Ports 8 SFP+ 10-GbE ports; Duplex: full only

SFP+ Module (JF290A) Physical characteristics 13.98(d) x 14.84(w) x 1.57(h) in. **Dimensions**

 $(35.5 \times 37.7 \times 4 \text{ cm})$

Weight 6.97 lb. (3.16 kg)

Notes The module (JF290A) only support 10-GbE SFP+ transceiver, not support

1GbE SFP transceiver.

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 20-port Gig-T / Ports 4-port GbE Combo PoE-

upgradable SC Module (JC669A)

20 RJ-45 auto-negotiating 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-

T, IEEE 802.3af PoE); Duplex: 10BASE-T/100BASE-TX: half or full;

1000BASE-T: full only

4 dual-personality ports; Each composed of a 10/100/1000Base-T Gigabit

Ethernet port and an SFP port, which cannot be simultaneously used

Physical characteristics **Dimensions** 13.98(d) x 14.84(w) x 1.57(h) in. (35.5 x 37.7 x

4 cm)

6.17 lb. (2.8 kg) Weight

Services Refer to the HP website at: www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 8-port 10GbE

XFP Extended Module

(JD191A)

Ports

8 XFP 10-GbE ports; Duplex: full only

Physical characteristics **Dimensions**

13.98(d) x 14.84(w) x 1.57(h) in.

 $(35.5 \times 37.7 \times 4 \text{ cm})$

Weight 7.12 lb. (3.23 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales



Accessory Product Details

HP 7500 48-port Gig-T PoE+ Extended Module

(JD229B)

Ports 48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE

802.3at PoE+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T:

full only

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 7.3 lb. (3.31 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 24-port GbE SFP / 2-port 10GbE XFP

Extended Module

(JD230A)

Ports 16 SFP 1000 Mbps ports

8 dual-personality ports; 1000M Combo ports (SFP or RJ-45)

2 XFP 10-GbE ports; Duplex: full only

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.79 lb. (3.08 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 24-port GbE SFP Extended Module

(JD234A)

Ports

16 SFP 100/1000 Mbps ports

8 dual-personality ports; 1000M Combo ports (SFP or RJ-45)

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.64 lb. (3.01 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the services and response times in your great places contact your local HP sale

services and response times in your area, please contact your local HP sales

office.

HP 7500 4-port 10GbE XFP Extended Module

(JD235A)

Ports

4 XFP 10-GbE ports; Duplex: full only

Physical characteristics Dimensions 13.98

13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.46 lb. (2.93 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales



Accessory Product Details

HP 7500 2-port 10GbE XFP Extended Module

(JD236A)

Ports 2 XFP 10-GbE ports; Duplex: full only

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.46 lb. (2.93 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 48-port GbE SFP Extended Module

(JD237A)

Ports 48 SFP 100/1000 Mbps ports

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 7.16 lb. (3.25 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 12-port GbE SFP Advanced Module

(JD202A)

Ports

12 SFP 1000 Mbps ports

Physical characteristics Dimensions

13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.35 lb. (2.88 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 1-port 1/10GbE Ports

XFP Module (JD200A)

Physical characteristics Dimensions

1 XFP 10-GbE port; Duplex: full only

13.98(d) x 14.84(w) x 1.57(h) in.

(35.5 x 37.7 x 4 cm)

Weight 6.17 lb. (2.8 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

Accessory Product Details

HP 7500 48-port GbE SFP Enhanced Module (JD221A)

Ports Physical characteristics 48 SFP 100/1000 Mbps ports

 $13.98(d) \times 14.84(w) \times 1.57(h)$ in.

 $(35.5 \times 37.7 \times 4 \text{ cm})$

Weight 7.16 lb. (3.25 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 24-port GbE SFP Enhanced Module (JD231A)

Ports

16 XFP 100/1000 Mbps ports

Dimensions

8 dual-personality ports; 1000M Combo ports (SFP or RJ-45)

Dimensions $13.98(d) \times 14.84(w) \times 1.57(h)$ in. $(35.5 \times 37.7 \times 4 \text{ cm})$

6.7 lb. (3.04 kg) Weight

Services Refer to the HP website at www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 24-port GbE SFP Enhanced Module (JD231A)

Ports

16 XFP 100/1000 Mbps ports

8 dual-personality ports; 1000M Combo ports (SFP or RJ-45)

Physical characteristics

Physical characteristics

Dimensions 13.98(d) x 14.84(w) x 1.57(h) in.

 $(35.5 \times 37.7 \times 4 \text{ cm})$

Weight 6.7 lb. (3.04 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 2-port 10GbE XFP Enhanced Module

(JD233A)

Ports

2 XFP 10-GbE ports; Duplex: full only

Physical characteristics

 $13.98(d) \times 14.84(w) \times 1.57(h)$ in. **Dimensions**

 $(35.5 \times 37.7 \times 4 \text{ cm})$

Weight 6.46 lb. (2.93 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

Accessory Product Details

HP X124 1G SFP LC LH40 Ports 1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)

1310nm Transceiver (JD061A)

A small form-factor pluggable SFP Gigabit

LH40 transceiver that

provides a full duplex

Gigabit solution up to

Connector type LC 1310 nm

Wavelength **Dimensions**

 $2.17(d) \times 0.6(w) \times 0.46(h)$ in. $(5.51 \times 1.52 \times 1.17)$

Physical characteristics

Connectivity

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption typical 0.8 W

Power consumption

1.0 W

maximum

40km on a single-mode Cabling fiber.

Cable type:

Single-mode fiber optic, complying with ITU-T G.652;

Maximum distance:

40km distance

Fiber type

Single Mode

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP X120 1G SFP LC LH40 Ports

1550nm Transceiver Connectivity

(JD062A)

A small form-factor

pluggable (SFP) Gigabit

Gigabit solution up to 40

km on a single mode fiber.

LH40 transceiver that

provides a full-duplex

1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)

Connector type

1550 nm

Physical characteristics

Wavelength **Dimensions** 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17

cm)

LC

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics

Power consumption typical 0.8 W

Power consumption

1.0 W

maximum

Cabling

Cable type:

Single-mode fiber optic, complying with ITU-T G.652;

Maximum distance:

• 40km distance

Fiber type

Single Mode

Services



Accessory Product Details

HP X125 1G SFP LC LH70 Transceiver (JD063B)

A small form-factor

pluggable (SFP) Gigabit LH70 transceiver that

provides a full-duplex

Gigabit solution up to

fiber.

70km on a single-mode

Ports 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics) Connectivity Connector type

LC

Wavelength

1550 nm

Physical characteristics

Dimensions $2.17(d) \times 0.6(w) \times 0.46(h)$ in. $(5.51 \times 1.52 \times 1$

1.17 cm)

Full configuration weight

0.04 lb. (0.02 kg)

Electrical characteristics

Power consumption

0.8 W

typical

Power consumption

1.0 W

maximum

Cabling Cable type:

Single-mode fiber optic, complying with ITU-T G.652;

Maximum distance:

• 70km

Fiber type

Single Mode

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP X125 1G SFP RJ45 T

Transceiver (JD089B)

pluggable (SFP) Gigabit

1000Base-T transceiver

Gigabit solution up to

100m on a Cat-5+ cable.

A small form factor

Connectivity

Ports

1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T) **RJ-45**

Physical characteristics

Dimensions

Connector type

 $2.71(d) \times 0.54(w) \times 0.55(h)$ in. $(6.88 \times 1.37 \times$

1.4 cm)

Full configuration weight

0.07 lb. (0.03 kg)

that provides a full duplex Electrical characteristics

Power consumption

0.8 W

typical

Power consumption

1.0 W

maximum

Cabling

Cable type:

1000BASE-T: Category 5 (5E or better recommended), 100 Ù differential 4pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced,

complying with IEEE 802.3ab 1000BASE-T;

Maximum distance:

• 100m

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

000BASE-BX10-U);

QuickSpecs

Accessory Product Details

pluggable (SFP) Gigabit

Gigabit solution up to

cable.

10km on a single mode

pluggable (SFP) Gigabit LX-BX10-D transceiver that

LX-BX10-U transceiver that provides a full duplex

HP X120 1G SFP LC BX	Ports	1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 10
10-U Transceiver		Duplex: full only

(JD098B) Connectivity Connector type LC

A small form-factor Physical characteristics Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x

1.17 cm)

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption 0.8 W typical

Power consumption 1.0 W maximum

Cabling Maximum distance:

• 10km

Fiber type Single Mode

Notes TX 1310nm RX 1490nm

Services Refer to the HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP X120 1G SFP LC BX Ports 1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-D);

10-D Transceiver

(JD099B)

Connectivity

Duplex: full only

Connector type

LC

A small form-factor Physical characteristics Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x

1.17 cm)

Full configuration weight 0.04 lb. (0.02 kg)

10km on a single mode Power consumption 1.0 W maximum

Cabling Maximum distance:

• Up to 10km

Fiber type Single Mode

Notes TX 1490nm RX 1310nm

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

Accessory Product Details

HP X120 1G SFP LC LH100 Transceiver (JD103A)

A small form factor

pluggable (SFP) Gigabit LH100 transceiver that

provides a full-duplex

Gigabit solution up to

fiber.

100km on a single mode

Ports 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics) Connectivity Connector type

LC Wavelength 1550 nm

typical

Electrical characteristics Power consumption 0.8 W

> Power consumption 1.0 W

maximum Cabling Cable type:

Single-mode fiber optic, complying with ITU-T G.652;

Maximum distance: • Up to 100km

Fiber type Single Mode

Refer to the HP website at www.hp.com/networking/services for details on Services

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP X120 1G SFP LC SX

Multimode fiber.

Ports 1 LC 1000BASE-SX port

Transceiver (JD118B) Connectivity Connector type LC

850 nm Wavelength A small form-factor **Dimensions**

pluggable (SFP) Gigabit SX Physical characteristics $2.17(d) \times 0.6(w) \times 0.46(h)$ in. $(5.51 \times 1.52 \times 1$ 1.17 cm) transceiver that provides a

full-duplex Gigabit Full configuration weight 0.04 lb. (0.02 kg) solution up to 550m on a

Electrical characteristics Power consumption 0.8 W

typical

Power consumption 1.0 W maximum

Cabling Maximum distance:

• FDDI Grade distance = 220m

• OM1 = 275m• OM2 = 500m

• OM3 = Not Specified by standard Cable length up to 550m Multi Mode Fiber type

Services Refer to the HP website at www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

Accessory Product Details

LX transceiver that provides a full duplex Gigabit

solution up to 550m on

MMF or 10Km on SMF

HP X120 1G SFP LC LX Ports 1 SFP 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX)

Transceiver (JD119B) Connectivity Connector type LC

A small form-factor Wavelength 1300 nm

pluggable (SFP) Gigabig Physical characteristics Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x

1.17 cm)

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption 0.8 W

typical

Power consumption 1.0 W

Cabling Cable type:

Either single mode or multimode;

Maximum distance:

550m for Multimode10km for Singlemode

Fiber type Both

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 50 m Multimode OM3 LC/LC Optical Cable (AJ839A) Cabling Cable type:

 $50/125 \, \mu m$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for

distances of up to 300 m;

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um

fiber optic cable and Ethernet assembly with LC duplex connectors on one

end and LC duplex connectors on other end.

• Dimensions: Core diameter: 50 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 10um

Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km

@850/1300nm.

 Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.

 CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.

BULK CABLE & CABLE ASSEMBLY CONFIGURATION:

 Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.

Jacket Color: Aqua for OM3 multimode per TIA 598

• Boot Color: White



Accessory Product Details

•	Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M
	added for lengths > 30 meters.

- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Refer to the HP website at www.hp.com/networking/services for details on the

service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)

Cabling

Services

Cable type:

 $50/125~\mu m$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 10um
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Services



Accessory Product Details

HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A) Cabling

Cable type:

 $50/125\,\mu\text{m}$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes Cable Specs: Tight buffered duplex fib

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 10um
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Services



Accessory Product Details

HP 5 m Multimode OM3 Cabling LC/LC Optical Cable (AJ836A)

Notes

Cable type:

 $50/125~\mu m$ core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Cable Specs: This specification defines the detail requirements for a tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 10um
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Services

Accessory Product Details

HP 2 m Multimode OM3 Cabling LC/LC Optical Cable (AJ835A)

Notes

Cable type:

 $50/125~\mu m$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 10um
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Ka

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Services

Accessory Product Details

HP 1 m Multimode OM3 Cabling LC/LC Optical Cable (AJ834A)

Notes

Cable type:

 $50/125~\mu m$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 10um
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Services

Accessory Product Details

HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A) Cabling

Notes

Cable type:

 $50/125~\mu m$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um

fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 ± 3.0 um Cladding diameter: 125 ± 2.0 um Coating diameter: 245 ± 10 um
- Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical glass: Bandwidth: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber and designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Services

Accessory Product Details

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

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

- Core diameter: 50um \pm 3um; Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade Low Smoke Zero Halogen (LSZH) thermoplastic.
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL OFN FT4, ROHS. Cable also has a longitudal white stripe that runs the entire length of the cable.
- \bullet Insertion Loss: less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths $>\!30\text{m}$
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

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

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

Services



Accessory Product Details

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

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

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

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

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

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

Services



Accessory Product Details

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

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

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

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

Notes

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

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

Services



Accessory Product Details

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

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

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

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP A7500 Access Controller Module (JD440A)

Ports 1 RJ-45 serial console port

1 RJ-45 out-of-band management port

2 USB 1.0 12 Mbps ports

Physical characteristics Dimensions 14.45(d) x 13.39(w) x 1.6(h) in. (36.7 x 34 x 4.06 cm) (1U height)

Weight 7.28 lb. (3.3 kg)

Memory and processorProcessorEight core @ 950 MHz, 256 MB compact flash, 1 GB DDR2 DIMM

Performance Switch fabric speed 20 Gbps

MAC address table size 24000 entries

EnvironmentOperating temperature
32°F to 113°F (0°C to 45°C)
Operating relative
5% to 95%, noncondensing

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

10 1 10 100 1 (10 0 10 70 0)

Nonoperating/Storage 5% to 95%, noncondensing

relative humidity

Electrical characteristics Maximum heat dissipation 273 BTU/hr (288.02 kJ/hr)

Maximum power rating 80 W

Safety UL 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; GOST; C-Tick; NOM; IEC 60950-

1 (with CB report)

Emissions EN 55022; VCCI; ICES-003; AS/NZS CISPR 22; EN 300 386; FCC Part 15; EN 61000-3-2:2006; EN

61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC



Accessory Product Details

Immunity EN EN 61000-4-2:1995+A1:1998+A2:2001; EN 61000-4-3:2006; EN

61000-4-4:2004; EN 61000-4-5:2006; EN 61000-4-6: 1996

+A1:2001:A2:2007; EN 61000-4-8:2001; EN 61000-4-11:2004; EN

55024:1998+ A1:2001 + A2:2003

IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; Management

SNMP Manager; Telnet; HTTPS; RMON1; FTP; in-line and out-of-band; IEEE 802.3 Ethernet MIB;

Ethernet Interface MIB

Features A7500 ACM License system

> - The A7500 ACM is an access controller module for the HP A7500 series Ethernet switches. It supports 128 APs by default. After license upgrade, the access controller module can support up to 640 APs.

Notes Max. number of users: 20K. Max. number of users that are supported by local authentication: 1K. Max.

number of SSIDs that can be configured: 512. Max. number of users that are supported by local portal

authentication: 4K. Number of ACLs: 32K.

Services Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions

and product numbers. For details about services and response times in your area, please contact your

local HP sales office.

Standards and protocols General protocols

> RFC 768 UDP RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 826 ARP

RFC 854 TELNET

RFC 855 Telnet Option Specification

RFC 858 Telnet Suppress Go Ahead Option

RFC 894 IP over Ethernet

RFC 950 Internet Standard Subnetting Procedure

RFC 959 File Transfer Protocol (FTP) RFC 1122 Host Requirements

RFC 1141 Incremental updating of the Internet

checksum

RFC 1144 Compressing TCP/IP headers for

low-speed serial links

RFC 1256 ICMP Router Discovery Protocol (IRDP)

RFC 1321 The MD5 Message-Digest Algorithm RFC 1334 PPP Authentication Protocols (PAP)

RFC 1350 TFTP Protocol (revision 2)

RFC 1812 IPv4 Routing

RFC 1944 Benchmarking Methodology for Network the 2.4 GHz Band

Interconnect Devices

RFC 1994 PPP Challenge Handshake

Authentication Protocol (CHAP)

RFC 2104 HMAC: Keyed-Hashing for Message

Authentication

RFC 2246 The TLS Protocol Version 1.0

RFC 2284 EAP over LAN

RFC 2644 Directed Broadcast Control

RFC 2864 The Inverted Stack Table Extension to the RFC 2574 SNMPv3 User-based Security Model

Interfaces Group MIB

MIBs

RFC 1229 Interface MIB Extensions

RFC 1643 Ethernet MIB

RFC 1757 Remote Network Monitoring MIB

RFC 2011 SNMPv2 MIB for IP RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB

RFC 2613 SMON MIB

RFC 2863 The Interfaces Group MIB RFC 2932IP (Multicast Routing MIB)

RFC 2933 IGMP MIB

Mobility

IEEE 802.11a High Speed Physical Layer in the 5

GHz Band

IEEE 802.11b Higher-Speed Physical Layer

Extension in the 2.4 GHz Band

IEEE 802.11d Global Harmonization

IEEE 802.11g Further Higher Data Rate Extension

IEEE 802.11i Medium Access Control (MAC)

Security Enhancements

IEEE 802.11n WLAN Enhancements for Higher

Throughput

Network management

RFC 1155 Structure of Management Information

RFC 1905 SNMPv2 Protocol Operations

RFC 2573 SNMPv3 Applications

(USM)



Accessory Product Details

RFC 2866 RADIUS Accounting RFC 2869 RADIUS Extensions RFC 3268 Advanced Encryption Standard (AES) Ciphersuites for Transport Layer Security (TLS) RFC 3619 Ethernet Automatic Protection Switching (EAPS)

IP multicast

RFC 1112 IGMP RFC 2236 IGMPv2 RFC 2934 Protocol Independent Multicast MIB for IPv4

IPv6

RFC 1350 TFTP
RFC 1881 IPv6 Address Allocation Management
RFC 1887 IPv6 Unicast Address Allocation
Architecture
RFC 1981 IPv6 Path MTU Discovery
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 Autoconfiguration
RFC 2463 ICMPv6

RFC 2464 Transmission of IPv6 over Ethernet Networks

RFC 2526 Reserved IPv6 Subnet Anycast Addresses RFC 2563 ICMPv6

RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)

RFC 3484 Default Address Selection for IPv6 RFC 3587 IPv6 Global Unicast Address Format

RFC 4443 ICMPv6

RFC 4541 IGMP & MLD Snooping Switch

RFC 4861 IPv6 Neighbor Discovery

RFC 4862 IPv6 Stateless Address Auto-

configuration

RFC 5095 Deprecation of Type 0 Routing Headers in IPv6

RFC 2575 VACM for SNMP SNMPv1/v2c

QoS/CoS

RFC 2474 DS Field in the IPv4 and IPv6 Headers RFC 2474 DSCP DiffServ RFC 2475 DiffServ Architecture RFC 3168 The Addition of Explicit Congestion Notification (ECN) to IP WiFi MultiMedia (WMM), IEEE 802.11e

IEEE 802.1X Port Based Network Access Control

Security

RFC 3394 Advanced Encryption Standard (AES)
Key Wrap Algorithm
RFC 3579 RADIUS Support For Extensible
Authentication Protocol (EAP)
Access Control Lists (ACLs)
Guest VLAN for 802.1x
Secure Sockets Layer (SSL)
SSHv1.5 Secure Shell
SSHv2 Secure Shell
Web Authentication
WPA (Wi-Fi Protected Access)/WPA2

IKE_v1

RFC 3748 - Extensible Authentication Protocol (EAP)



Accessory Product Details

HP TippingPoint \$1200N Ports

IPS A7500 Module

(JC527A)

2 SFP 1000 Mbps ports

2 RJ-45 1000 Mbps ports

1 Compact Flash port

1 RJ-45 serial console port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type

100BASE-TX, IEEE 802.3ab Type 1000BASE-T)

Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 13.7(d) x 15.7(w) x 1.6(h) in. (34.8 x 39.88 x **Dimensions**

4.06 cm)

Weight 7.7 lb. (3.49 kg), Fully loaded

Electrical characteristics Throughput up to 1.3 Gbps

> IPS/IDS throughput 1.3 Gbps inspected throughput

Concurrent sessions 6,500,000 New sessions/second 78K

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

Physical characteristics

10% to 95%, noncondensing Operating relative

humidity

Nonoperating/Storage -20°F to 45°F (-28.9°C to 7.2°C)

temperature

Services Refer to the HP website at: www.hp.com/networking/services for details on

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

Denial of service Automatic filtering of well-known denial-of-Standards and protocols

> protection service

packets

Rate Limiting by ACLs

IPv6 RFC 2460 IPv6 Specification

HP 7500 384Gbps Fabric Ports Module with 2 XFP Ports

(JD193B)

1 RJ-45 dual-personality port; One console port, used for local or remote

configuration and management

1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u

Type 100BASE-TX); Duplex: half or full

1 Compact Flash port

2 XFP 10-GbE ports; Duplex: full only

Dimensions 13.98(d) x 14.84(w) x 1.77(h) in. (35.5 x 37.7 x Physical characteristics

4.5 cm)

Weight 7.94 lb. (3.6 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales



Accessory Product Details

HP 7500 384Gbps Fabric Ports

Module (JD194B)

1 RJ-45 dual-personality port; One console port, used for local or remote

configuration and management

1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u

Type 100BASE-TX); Duplex: half or full

1 Compact Flash port

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.77(h) in. (35.5 x 37.7 x

4.5 cm)

Weight 7.94 lb. (3.6 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 384Gbps

Ports

Advanced Fabric Module

(JD195A)

1 RJ-45 dual-personality port; One console port, used for local or remote

configuration and management

1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u

Type 100BASE-TX); Duplex: half or full

1 Compact Flash port

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.77(h) in. (35.5 x 37.7 x

4.5 cm)

Weight 7.94 lb. (3.6 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 768Gbps Fabric Ports

Module (JD220A)

1 RJ-45 dual-personality port; One console port, used for local or remote

configuration and management

1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u

Type 100BASE-TX); Duplex: half or full

1 Compact Flash port

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.77(h) in. (35.5 x 37.7 x

4.5 cm)

Weight 7.85 lb. (3.56 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

Accessory Product Details

HP 7500 1400W DC Physical characteristics Dimensions 14.06(d) x 7.72(w) x 5.04(h) in. (35.7 x 19.6 x 12.8 cm) (3U height

Weight 20.39 lb. (9.25 kg)

Electrical characteristics Voltage 0~-48/-60V

Current 0/50 A
Idle power 168 W
Maximum power rating 1400 W
PoE power 140 W

Notes Idle power is the actual power consumption of

the device with no ports connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped),

100% traffic, all ports plugged in, and all

modules populated.

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 1400W AC Power Supply (JD218A) Physical characteristics Dimensions $14.06(d) \times 7.72(w) \times 5.04(h)$ in. $(35.7 \times 19.6 \times 10^{-4}) \times 10^{-4}$

12.8 cm) (3U height)

Weight 14 lb. (6.35 kg)

Electrical characteristics Voltage 100-120/200-240 VAC

Current 0/16 A
Idle power 196 W
Maximum power rating 1400 W
PoE power 0 W
Frequency 50/60 Hz

Notes Idle power is the actual power consumption of

the device with no ports connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped),

100% traffic, all ports plugged in, and all

modules populated.

1400W AC Power Supply uses a 16-A AC power

cable

Notes US order needs to indicate either #ABA option (for 110V) or #B2E (for

220V). This will determine which power cord the distribution centres include

with the product.



Accessory Product Details

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7500 2800W AC

Power Supply (JD219A)

Physical characteristics

Dimensions $13.98(d) \times 7.72(w) \times 5.04(h)$ in. $(35.5 \times 19.6 \times 10.00) \times 10.00$

12.8 cm) (3U height)

Weight 18.08 lb. (8.2 kg)

Electrical characteristics Voltage 100-120/200-240 VAC

 $\begin{tabular}{ll} Current & 0/16 A \\ Idle power & 210 W \\ Maximum power rating & 2800 W \\ PoE power & 1400 W \\ Frequency & 50/60 Hz \\ \end{tabular}$

Notes Idle power is the actual power consumption of

the device with no ports connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the

infrastructure with fully loaded

PoE (if equipped), 100% traffic, all ports plugged

in, and all modules populated.

2800W AC Power Supply uses a 16-A AC power

cable.

Notes US order needs to indicate either #ABA option (for 110V) or #B2E (for

220V). This will determine which power cord the distribution centres include

with the product.

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

Accessory Product Details

HP 7500 6000W AC	Physical characteristics	Dimensions	
Power Supply (JD227A)			

14.06(d) x 7.72(w) x 5.04(h) in. (35.7 x 19.6 x

12.8 cm) (3U height)

Weight 28.22 lb. (12.8 kg)

Electrical characteristics Voltage 100-120/200-240 VAC

Current 0/16 A
Idle power 105 W
Maximum power rating 6000 W
PoE power 5300 W
Frequency 50/60 Hz

Notes Idle power is the actual power consumption of

the device with no ports connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the

infrastructure with fully loaded

PoE (if equipped), 100% traffic, all ports plugged

in, and all modules populated.

6000W AC Power Supply uses a 16-A AC power

cable.

Notes US order needs to indicate either #ABA option (for 110V) or #B2E (for

220V). This will determine which power cord the distribution centres include

with the product.

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7503 Fabric Module Ports with 24 GbE Ports

(JD222A)

1 RJ-45 dual-personality port; One console port, used for local or remote

configuration and management

1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u

Type 100BASE-TX); Duplex: half or full

16 SFP 100/1000 Mbps ports

8 dual-personality ports; Combo ports (RJ45 or SFP)

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.77(h) in.

(35.5 x 37.7 x 4.5 cm)

Weight 6.17 lb. (2.8 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

Accessory Product Details

HP 7503-\$ 144 Gbps Fabric / Main Processing Unit with PoE-upgradable 20p Gig-T / 4p GbE Combo (JC666A)

Ports

Ports

1 RJ-45 serial console port; One console port, used for local or remote configuration and management of the switch through a dialup connection 1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full

20 RJ-45 auto-negotiating 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-TX

T, IEEE 802.3af PoE); Duplex: 10BASE-T/100BASE-TX: half or full;

1000BASE-T: full only

4 dual-personality ports; each of which consists of a 10/100/1000Base-T port and an SFP port. The two ports comprising a Combo port cannot

operate at the same time.

Physical characteristics Dimensions $13.98(d) \times 14.84(w) \times 1.77(h)$ in. $(35.5 \times 37.7 \times 10^{-2} \text{ m})$

4.5 cm)

Weight 6.31 lb. (2.86 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7503-S 144 Gbps TAA Fabric/Main Processing Unit with 16 GbE SFP Ports and 8 GbE Combo Ports (JC698A)

1 RJ-45 dual-personality port; One console port, used for local or remote

configuration and management

1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u

Type 100BASE-TX); Duplex: half or full

16 SFP 100/1000 Mbps ports

8 dual-personality ports; Combo ports (RJ45 or SFP)

Physical characteristics Dimensions 13.98(d) x 14.84(w) x 1.77(h) in. (35.5 x 37.7 x

4.5 cm)

Weight 6.17 lb. (2.8 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

Accessory Product Details

HP 7500 650W AC	Physical characteristics	Dimensions	13.78(d)
Power Supply (JD217A)			(1U heigh

13.78(d) x 5.51(w) x 1.57(h) in. (35 x 14 x 4 cm) (1U height)

Weight 5.34 lb. (2.42 kg)

Electrical characteristics Voltage 100-120/200-240 VAC

 $\begin{array}{lll} \text{Current} & 0/10 \text{ A} \\ \text{Idle power} & 97.5 \text{ W} \\ \text{Maximum power rating} & 650 \text{ W} \\ \text{PoE power} & 0 \text{ W} \\ \text{Frequency} & 50/60 \text{ Hz} \\ \end{array}$

Notes Idle power is the actual power consumption of

the device with no ports connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the

infrastructure with fully loaded

PoE (if equipped), 100% traffic, all ports plugged

in, and all modules populated.

650W AC Power Supply uses a 10-A AC power

cable

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

HP 7500 650W DC Power Supply (JD209A) Physical characteristics

Electrical characteristics

Dimensions

13.78(d) x 5.51(w) x 1.57(h) in. (35 x 14 x 4 cm)

(1U height)

Weight 4.96 lb. (2.25 kg)
Voltage 0∼-48/-60V

Current 0/25 A
Idle power 97.5 W
Maximum power rating 650 W
PoE power 0 W

Notes Idle power is the actual power consumption of

the device with no ports connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the

infrastructure with fully loaded

PoE (if equipped), 100% traffic, all ports plugged

in, and all modules populated.

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

Accessory Product Details

HP 7502 300W AC	
Power Supply (JD226A)	

Physical characteristics

Dimensions

 $13.78(d) \times 5.51(w) \times 1.57(h)$ in. $(35 \times 14 \times 4 \text{ cm})$

(1U height)

Weight Voltage 4.17 lb. (1.89 kg)

Electrical characteristics

100-120/200-240 VAC

Current 0/5 AIdle power 54 W 300 W Maximum power rating PoE power 0 W Frequency 50/60 Hz

Notes

Idle power is the actual power consumption of

the device with no ports connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the

infrastructure with fully loaded

PoE (if equipped), 100% traffic, all ports plugged

in, and all modules populated.

300W AC Power Supply uses a 10-A AC power

cable

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 7502 300W DC Power Supply (JD225A) Physical characteristics

Electrical characteristics

Dimensions

13.78(d) x 5.51(w) x 1.57(h) in. (35 x 14 x 4 cm)

(1U height)

Weight 4.08 lb. (1.85 kg) Voltage 0~-48/-60V

Current 0/10 A 60 W Idle power 300 W Maximum power rating 0 W PoE power

Notes Idle power is the actual power consumption of

> the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical

maximum numbers provided for planning the infrastructure with fully loaded

PoE (if equipped), 100% traffic, all ports plugged

in, and all modules populated.

Services Refer to the HP website at www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales



Accessory Product Details

HP 7502 Fabric Module Ports 1 RJ-45 dual-personality port; One console port, used for local or remote

configuration and management

1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u

Type 100BASE-TX); Duplex: half or full

1 Compact Flash port

Physical characteristics Dimensions 13.98(d) x 7.83(w) x 1.77(h) in.

 $(35.5 \times 19.9 \times 4.5 \text{ cm})$

Weight 2.98 lb. (1.35 kg)

Services Refer to the HP website at www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about

services and response times in your area, please contact your local HP sales

office.

HP 7502 TAA-compliant Ports

Main Processing Unit

(JC697A)

(JD196A)

1 RJ-45 dual-personality port; One console port, used for local or remote

configuration and management

1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u

Type 100BASE-TX); Duplex: half or full

1 Compact Flash port

Physical characteristics Dimensions $13.98(d) \times 7.83(w) \times 1.77(h)$ in. $(35.5 \times 19.9 \times 10.00) \times 1.77(h)$ in. $(35.5 \times 19.9 \times 10.00) \times 1.000$

4.5 cm)

Weight 2.98 lb. (1.35 kg)

Services Refer to the HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

office.

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