

HP FlexFabric 5700 Switch Series



Key features

- High performance port expansion with true local switching capacity
- HP Intelligent Resilient Fabric (IRF) for virtualization and two-tier networks
- High 1/10GbE wire speed ports with 40GbE uplinks
- Layer 2 and light Layer 3 features with static routing and RIP
- Convergence ready with DCB, FCoE, and TRILL

Product overview

The HP FlexFabric 5700 Switch Series is a family of high-performance, low latency, access switches aimed at expanding port connectivity while adding local switching capacity. That is part of the HP FlexNetwork architecture's HP FlexFabric solution.

Ideally suited for deployment at the server access layer of large and medium sized enterprise data centers. The HP FlexFabric 5700 Switch Series delivers lower TCO while enhancing networking performance to support demanding virtualized applications and server-to-server traffic. Resilience and ease of management come hand-in-hand with the FlexFabric 5700. While IRF reduces management complexities by up to 88%, it also delivers agility with <50msec convergence time.

Features and benefits

Quality of service (QoS)

- Powerful QoS features
 - Flexible classification

Flow classification based on source MAC, destination MAC, source IP (IPv4/IPv6), destination IP, port, protocol, and VLAN
 - Feature queue scheduling

Provides support for strict priority (SP), weighted deficit round robin (WDRR), weighted fair queuing (WFQ), SP+WDRR, and SP+WFQ. Supports Explicit Congestion Notification (ECN) and weighted random early detection (WRED)

Data center-optimized

- Versatile server connectivity

The HP FlexFabric 5700 Switch Series enables scaling of the server edge with 1GbE and 10GbE ToR deployments to new heights with high-density 32- and 48-port solutions delivered in a 1RU form factor. The FlexFabric 5700 switches can be setup as standalone layer 2 and lite layer 3 switches. They can also be setup to be automatically configured as leaf switches in Port Extenders (PE) mode when connected to Controlling Bridge (CB) switches such as FlexFabric 5900 switches, FlexFabric 11900 switches or FlexFabric 12900 switches. (future) The FlexFabric 5700 series high-server port density is backed by 40GbE QSFP+ uplinks to deliver the availability of needed bandwidth for demanding applications. Each 40GbE QSFP+ port can also be configured as four 10GbE ports by using a 40GbE-to-10GbE splitter cable
- High-performance switching

Cut-through and non-blocking architecture delivers low latency (~1.5 microsecond for 10GbE) for very demanding enterprise applications. The FlexFabric 5700 switches also deliver high-performance switching capacity and wire-speed packet forwarding. The local switching capacity and packet forwarding enable the FlexFabric 5700 series to participate in the network and enhance networking capacity available for servers. This is in contrast to competing port extenders that offer no local switching capacity.
- Higher scalability and simplified management

HP IRF technology simplifies the architecture of server access networks; up to nine HP FlexFabric 5700 physical switches can be combined into one virtual switch configuration and are managed using a single IP address. IRF enables the FlexFabric 5700 series to deliver unmatched scalability of virtualized switches and flatter two-tier networks, which reduces cost and complexity. In addition, support for IRF fabric enhancements will enable up to 30 FlexFabric 5700 series switches to be managed as one virtual switch when configured as PEs using the FlexFabric 5900 switch acting as a Controlling Bridge (future).
- Advanced modular network operating system

HP Comware v7 network operating system's modular design and multiple processes bring native high stability, independent process monitoring, and a restart; the OS also allows individual software modules to be upgraded for higher availability and supports enhanced serviceability functions like hitless software upgrades with single-chassis In Service Software Upgrade (ISSU)
- TRILL and EVB and VEPA

TRansparent Interconnection of Lots of Links (TRILL) is supported to increase the scale of enterprise data centers; Edge Virtual Bridging with Virtual Ethernet Port Aggregator (EVB/VEPA) provides connectivity into the virtual environment for a data center-ready environment

- Reversible airflow
Enhanced for data center hot-cold aisle deployment with reversible airflow—for either front-to-back or back-to-front airflow
- Redundant fans and power supplies
1+1 internal redundant and hot-pluggable power supplies and dual fan trays enhance reliability and availability
- Lower OPEX and greener data center
Provide reversible airflow and advanced chassis power management for lower power consumption
- Data Center Bridging (DCB) protocols
Provides support for IEEE 802.1Qbb Priority Flow Control (PFC) and Data Center Bridging Exchange (DCBX) for converged applications
- FCoE support
Provides support for Fibre Channel over Ethernet (FCoE) including Fibre Channel Forwarder (FCF), transit, and N-Port Virtualization (NPV)
- Jumbo frames
Frame sizes of up to 10,000 bytes on Gigabit Ethernet and 10 Gigabit ports allows high-performance remote backup and disaster-recovery services to be enabled

Manageability

- Fully featured console
Provides complete control of the switch with a familiar Command Line Interface (CLI)
- Troubleshooting
 - Ingress and egress port monitoring
Enable network problem solving
 - Traceroute and ping
Enable testing of network connectivity
- Multiple configuration files
Allow multiple configuration files to be stored to a flash image
- sFlow (RFC 3176)
Provides wire-speed traffic accounting and monitoring
- SNMP v1, v2c, and v3
Facilitate centralized discovery, monitoring, and safer management of networking devices
- Out-of-band interface
Isolates management traffic from user data plane traffic for complete isolation and total reachability, no matter what happens in the data plane
- Remote configuration and management
Is available through a secure command-line interface (CLI) over Telnet and SSH; Role-Based Access Control (RBAC) provides multiple levels of access; configuration rollback and multiple configurations on the flash provide ease of operation; remote visibility is provided with sFlow and SNMP v1/v2/v3, and is fully supported in HP Intelligent Management Center (IMC)

- ISSU and hot patching
Provide hitless software upgrades with single-unit ISSU and hitless patching of the modular operating system
- Auto-configuration
Provides automatic configuration via DHCP auto-configuration, NETCONF, and Python scripting
- Network Time Protocol (NTP) and Secure Network Time Protocol (SNTP)
Synchronize timekeeping among distributed time servers and clients; keep consistent timekeeping among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time. Precision Time Protocol (PTP) RFC 1855-compliant

Resiliency and high availability

- HP Intelligent Resilient Fabric (IRF) technology
Enables an HP FlexFabric to deliver resilient, scalable, and secured data center networks for physical and virtualized environments; groups up to nine HP FlexFabric 5700 switches in an IRF configuration, allowing them to be configured and managed as a single virtual switch with a single IP address; simplifies ToR and spine/leaf deployments and management, reducing data center deployment and operating expenses
- IEEE 802.1w Rapid Convergence Spanning Tree Protocol
Increases network uptime through faster recovery from failed links
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
Provides high link availability in multiple VLAN environments by allowing Multiple Spanning Trees
- Hitless patch upgrades
Allows patches and new service features to be installed without restarting the equipment, increasing network uptime and facilitating maintenance
- Device Link Detection Protocol (DLDP)
Monitors link connectivity and shuts down ports at both ends if unidirectional traffic is detected, preventing loops in STP-based networks

Layer 2 switching

- Address Resolution Protocol (ARP)
Supports static, dynamic, and reverse ARP and ARP proxy
- Flow Control
IEEE 802.3x Flow Control provides intelligent congestion management via PAUSE frames
- Ethernet link aggregation
Provides IEEE 802.3ad Link Aggregation of up to 128 groups of 16 ports; support for LACP, LACP Local Forwarding First, and LACP Short-time provides a fast, resilient environment that is ideal for the data center
- Spanning Tree Protocol (STP)
STP (IEEE 802.1D), Rapid STP (RSTP, IEEE 802.1w), and Multiple STP (MSTP) (IEEE 802.1s)

- VLAN support
Provides support for 4,094 VLANs based on port. VLAN mapping, QinQ, and Selective QinQ
- IGMP support
Provides support for IGMP snooping v1/v2/v3, PIM snooping, MLD snooping v1/v2, and IPv6 PIM snooping
- DHCP support at Layer 2
Provides full DHCP snooping support for DHCP Snooping Option 82, DHCP Relay Option 82, DHCP Snooping Trust, and DHCP Snooping Item Backup

Layer 3 services

- Address Resolution Protocol (ARP)
Determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network
- Dynamic Host Configuration Protocol (DHCP)
Simplifies the management of large IP networks and supports client and server; DHCP Relay enables DHCP operation across subnets
- Operations, administration, and maintenance (OAM) support
Provides support for Connectivity Fault Management (IEEE 802.1AG) and Ethernet in the First Mile (IEEE 802.3AH); provides additional monitoring that can be used for fast fault detection and recovery

Layer 3 routing

- Equal-Cost Multipath (ECMP)
Enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth
- Layer 3 IPv4 routing
Provides routing of IPv4 at media speed; supports static routes, RIP, and RIPv2
- Static IPv6 routing
Provides simple manually configured IPv6 routing
- Dual IP stack
Maintains separate stacks for IPv4 and IPv6 to ease the transition from an IPv4-only network to an IPv6-only network design
- Bidirectional Forwarding Detection (BFD)
Enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF
- Layer 3 IPv6 routing
Provides routing of IPv6 at media speed; supports static routing and RIPng

Additional information

- Green IT and power
Improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes variable speed fans, reducing energy costs
- Low power consumption
Is rated to have one of the lowest power usages in the industry by Miercom independent tests

Management

- USB support
 - File copy
 - Allows users to copy switch files to and from a USB flash drive
- Multiple configuration files
 - Store easily to the flash image
- Network Time Protocol (NTP)
 - Synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time
- Port mirroring
 - Enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- Remote configuration and management
 - Is available through a command-line interface (CLI)
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
 - Advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- 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
- Command authorization
 - Leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity
- Dual flash images
 - Provide independent primary and secondary operating system files for backup while upgrading
- Command-line interface (CLI)
 - Provides a safe, easy-to-use CLI for configuring the module via SSH or a switch console; provides direct real-time session visibility
- Logging
 - Provides local and remote logging of events via SNMP (v2c and v3) and syslog; provides log throttling and log filtering to reduce the number of log events generated
- Management interface control
 - Provides management access through a modem port and terminal interface, as well as in-band and out-of-band Ethernet ports; provides access through terminal interface, Telnet, or secure shell (SSH)
- Industry-standard CLI with a hierarchical structure
 - Reduces training time and expenses, and increases productivity in multivendor installations
- Management security
 - Restricts access to critical configuration commands; offers multiple privilege levels with password protection; ACLs provide Telnet and SNMP access; local and remote syslog capabilities allow logging of all access

- Information center

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

- Network management

HP Intelligent Management Center (IMC) centrally configures, updates, monitors, and troubleshoots

- Remote intelligent mirroring

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

Security

- Access control lists (ACLs)

Provide IP Layer 3 filtering based on source/destination IP address/subnet, and source/destination TCP/UDP port number

- RADIUS/TACACS+

Eases switch management security administration by using a password authentication server

- Secure shell

Encrypts all transmitted data for safe remote CLI access over IP networks

- IEEE 802.1X and RADIUS network logins

Controls port-based access for authentication and accountability

- Port security

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

Convergence

- LLDP-MED (Media Endpoint Discovery)

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

Warranty and support

- 1-year warranty

Advance hardware replacement with 10-calendar-day delivery (available in most countries)

- Electronic and telephone support

Limited electronic and business-hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to hp.com/networking/warrantysummary

- Software releases

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

HP FlexFabric 5700 Switch Series

Specifications



HP FlexFabric 5700-40XG-2QSFP+ Switch (JG896A)

HP FlexFabric 5700-48G-4XG-2QSFP+ Switch (JG894A)

HP FlexFabric 5700-32XGT-8XG-2QSFP+ Switch (JG898A)

I/O ports and slots

40 fixed 1000/10000 SFP+ ports
2 QSFP+

48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
4 fixed 1000/10000 SFP+ ports
2 QSFP+

32 RJ-45 1/10GBASE-T ports; Duplex: 100BASE-TX/1000BASE-TX/10GBASE-TX: Full Only
8 fixed 1000/10000 SFP+ ports
2 QSFP+

Additional ports and slots

1 RJ-45 serial console port
1 RJ-45 out-of-band management port
1 USB 2.0

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1 RJ-45 out-of-band management port
1 USB 2.0

1 RJ-45 serial console port
1 RJ-45 out-of-band management port
1 USB 2.0

Power supplies

2 power supply slots
1 minimum power supply required (ordered separately)

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Fan tray

2 fan tray slots
The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.

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Physical characteristics

Dimensions 17.32(w) x 18.11(d) x 1.72(h) in, (43.99 x 46 x 4.37 cm) (1U height)
Weight 22.05 lb (10 kg) shipping weight

Dimensions 17.32(w) x 18.11(d) x 1.72(h) in, (43.99 x 46 x 4.37 cm) (1U height)
Weight 22.05 lb (10 kg) shipping weight

Dimensions 17.32(w) x 25.98(d) x 1.72(h) in, (43.99 x 46 x 4.37 cm) (1U height)
Weight 28.66 lb (13 kg) shipping weight

Memory and processor

512 MB flash, 2 GB SDRAM; packet buffer size: 9 MB

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512 MB flash, 2 GB SDRAM; packet buffer size: 9 MB

Performance

10 Gb/s Latency < 1.5 μs (64-byte packets)
Throughput 714.2 Mpps
Routing/Switching capacity 960 Gb/s
Routing table size 128 entries (IPv4), 128 entries (IPv6)
MAC address table size 128000 entries

< 5 μs (64-byte packets)
250 Mpps
336 Gb/s
128 entries (IPv4), 128 entries (IPv6)
128000 entries

< 1.5 μs (64-byte packets)
714.2 Mpps
960 Gb/s
128 entries (IPv4), 128 entries (IPv6)
128000 entries

Environment

Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, noncondensing	10% to 90%, noncondensing	10% to 90%, noncondensing
Acoustic	Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB	Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB	Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB

Electrical characteristics

Frequency	50/60 Hz	50/60 Hz	50/60 Hz
AC voltage	100 - 240 VAC	100 - 240 VAC	100 - 240 VAC
DC voltage	-48 to -60 VDC	-48 to -60 VDC	-48 to -60 VDC
Maximum power rating	162 W	175 W	350 W
Idle power	90 W	115 W	150 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.	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
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Safety

UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
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Emissions

VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A
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Immunity

Generic	ETSI EN 300 386 V1.3.3	ETSI EN 300 386 V1.3.3	ETSI EN 300 386 V1.3.3
EN	EN 55024:1998+ A1:2001 + A2:2003	EN 55024:1998+ A1:2001 + A2:2003	EN 55024:1998+ A1:2001 + A2:2003
ESD	EN 61000-4-2; IEC 61000-4-2	EN 61000-4-2; IEC 61000-4-2	EN 61000-4-2; IEC 61000-4-2
Radiated	EN 61000-4-3; IEC 61000-4-3	EN 61000-4-3; IEC 61000-4-3	EN 61000-4-3; IEC 61000-4-3
EFT/Burst	EN 61000-4-4; IEC 61000-4-4	EN 61000-4-4; IEC 61000-4-4	EN 61000-4-4; IEC 61000-4-4
Surge	EN 61000-4-5; IEC 61000-4-5	EN 61000-4-5; IEC 61000-4-5	EN 61000-4-5; IEC 61000-4-5
Conducted	EN 61000-4-6; IEC 61000-4-6	EN 61000-4-6; IEC 61000-4-6	EN 61000-4-6; IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8	IEC 61000-4-8; EN 61000-4-8	IEC 61000-4-8; EN 61000-4-8
Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11	EN 61000-4-11; IEC 61000-4-11	EN 61000-4-11; IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3

Management

IMC—Intelligent Management Center; command-line interface; out-of-band management; SNMP Manager; Telnet; FTP	IMC—Intelligent Management Center; command-line interface; out-of-band management; SNMP Manager; Telnet; FTP	IMC—Intelligent Management Center; command-line interface; out-of-band management; SNMP Manager; Telnet; FTP
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Services

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

(applies to all products in series)

Device management	RFC 1157 SNMPv1/v2c RFC 1305 NTPv3 RFC 1591 DNS (client) RFC 1902 (SNMPv2)	RFC 1908 (SNMP v1/2 Coexistence) RFC 2573 (SNMPv3 Applications) RFC 2576 (Coexistence between SNMP V1, V2, V3)	Multiple Configuration Files Multiple Software Images SSHv1/SSHv2 Secure Shell TACACS/TACACS+
General protocols	IEEE 802.1ad Q-in-Q IEEE 802.1ag Service Layer OAM IEEE 802.1D MAC Bridges IEEE 802.1D Spanning Tree Protocol IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T Gigabit Ethernet over twisted pair (10/100/1000 models only) IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3ae 10-Gigabit Ethernet IEEE 802.3ag Ethernet OAM IEEE 802.3ah Ethernet in First Mile over Point to Point Fiber - EFMF IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 791 IP RFC 792 ICMP	RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 856 TELNET RFC 868 Time Protocol RFC 896 Congestion Control in IP/TCP Internetworks RFC 950 Internet Standard Subnetting Procedure RFC 1027 Proxy ARP RFC 1058 RIPv1 RFC 1091 Telnet Terminal-Type Option RFC 1141 Incremental updating of the Internet checksum RFC 1191 Path MTU discovery RFC 1213 Management Information Base for Network Management of TCP/IP-based internets RFC 1531 Dynamic Host Configuration Protocol RFC 1541 DHCP RFC 1591 DNS (client only) RFC 1624 Incremental Internet Checksum RFC 1723 RIP v2 RFC 1812 IPv4 Routing	RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP RFC 2236 IGMP Snooping RFC 2453 RIPv2 RFC 2581 TCP Congestion Control RFC 2644 Directed Broadcast Control RFC 2767 Dual Stacks IPv4 & IPv6 RFC 3046 DHCP Relay Agent Information Option RFC 4250 The Secure Shell (SSH) Protocol Assigned Numbers RFC 4251 The Secure Shell (SSH) Protocol Architecture RFC 4252 The Secure Shell (SSH) Authentication Protocol RFC 4253 The Secure Shell (SSH) Transport Layer Protocol RFC 4254 The Secure Shell (SSH) Connection Protocol RFC 4419 Diffie-Hellman Group Exchange for the Secure Shell (SSH) Transport Layer Protocol RFC 4594 Configuration Guidelines for DiffServ Service Classes RFC 4941 Privacy Extensions for Stateless Address Autoconfiguration in IPv6
IPv6	RFC 2080 RIPng for IPv6 RFC 2460 IPv6 Specification RFC 2461 IPv6 Neighbor Discovery RFC 2462 IPv6 Stateless Address Auto-configuration	RFC 2463 ICMPv6 RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2563 ICMPv6 RFC 2711 IPv6 Router Alert Option	RFC 2767 Dual stacks IPv4 & IPv6 RFC 3315 DHCPv6 (client and relay) RFC 4291 IP Version 6 Addressing Architecture RFC 4862 IPv6 Stateless Address Auto-configuration RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
MIBs	RFC 1213 MIB II RFC 1907 SNMPv2 MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB	RFC 2573 SNMP-Notification MIB RFC 2573 SNMP-Target MIB RFC 2574 SNMP USM MIB RFC 2737 Entity MIB (Version 2)	RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB LLDP-MIB
Network management		RFC 3164 BSD syslog Protocol	
QoS/CoS	IEEE 802.1P (CoS) RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF)	RFC 3247 Supplemental Information for the New Definition of the EF PHB (Expedited Forwarding Per-Hop Behavior)	RFC 3260 New Terminology and Clarifications for DiffServ
Security	Access Control Lists (ACLs)	SSHv2 Secure Shell	

HP FlexFabric 5700 Switch Series accessories

Transceivers

HP X120 1G SFP LC LH40 1550nm Transceiver (JD062A)
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 LX Transceiver (JD119B)
HP X120 1G SFP RJ45 T Transceiver (JD089B)
HP X120 1G SFP LC SX Transceiver (JD118B)
HP X125 1G SFP LC LH40 1310nm Transceiver (JD061A)
HP X125 1G SFP LC LH70 Transceiver (JD063B)
HP X130 10G SFP+ LC SR Transceiver (JD092B)
HP X130 10G SFP+ LC LRM Transceiver (JD093B)
HP X130 10G SFP+ LC LR Transceiver (JD094B)
HP X130 10G SFP+ LC ER 40km Transceiver (JG234A)
HP X140 40G QSFP+ MPO SR4 Transceiver (JG325A)
HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable (JD095C)
HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable (JD096C)
HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (JD097C)
HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable (JG081C)
HP X240 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable (JG326A)
HP X240 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable (JG327A)
HP X240 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable (JG328A)
HP X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable (JG329A)
HP X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable (JG330A)
HP X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable (JG331A)
HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable (JC784C)
HP X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver (JG661A)
HP X140 40G QSFP+ MPO SR4 Transceiver (JG325B)
HP X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver (JG709A)

HP FlexFabric 5700 Switch Series accessories (continued)

HP FlexFabric 5700-40XG-2QSFP+ Switch (JG896A)

HP 58x0AF Back (Power Side) to Front (Port Side) Airflow 300W AC Power Supply (JG900A)
HP 58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply (JG901A)
HP 58x0AF Back (power side) to Front (port side) Airflow Fan Tray (JC682A)
HP 58x0AF Front (port side) to Back (power side) Airflow Fan Tray (JC683A)

HP FlexFabric 5700-48XG-4XG-2QSFP+ Switch (JG894A)

HP 58x0AF Back (Power Side) to Front (Port Side) Airflow 300W AC Power Supply (JG900A)
HP 58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply (JG901A)
HP 58x0AF Back (power side) to Front (port side) Airflow Fan Tray (JC682A)
HP 58x0AF Front (port side) to Back (power side) Airflow Fan Tray (JC683A)

HP FlexFabric 5700-32XGT-8XG-2QSFP+ Switch (JG898A)

HP X711 Front (port side) to Back (power side) Airflow High Volume Fan Tray (JG552A)
HP X712 Back (power side) to Front (port side) Airflow High Volume Fan Tray (JG553A)
HP 58x0AF 650W AC Power Supply (JC680A)
HP 58x0AF 650W DC Power Supply (JC681A)

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