HPE FlexFabric 5700 Switch Series

Key features

- High performance port expansion with true local switching capacity
- Hewlett Packard Enterprise 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 HPE FlexFabric 5700 Switch Series is a family of high-performance, low-latency access switches aimed at expanding port connectivity while adding local switching capacity. The switch is part of the Hewlett Packard Enterprise FlexNetwork architecture’s FlexFabric solution.

Ideally suited for deployment at the server access layer of large and medium sized enterprise data centers. The HPE 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 percent, it also delivers agility with <50 msec 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 HPE 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. These switches can be set up as standalone layer 2 and lite layer 3 switches. The high server port density of the 5700 Switch 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. Local switching capacity and packet forwarding enable the switch 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
  Hewlett Packard Enterprise IRF technology simplifies the architecture of server access networks; up to nine FlexFabric 5700 physical switches can be combined into one virtual switch configuration and are managed using a single IP address. IRF enables this switch to deliver the unmatched scalability of virtualized switches and flatter two-tier networks, which reduces cost and complexity
• Advanced modular network operating system
  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 HPE 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**

• **Hewlett Packard Enterprise Intelligent Resilient Fabric (IRF) technology**
  Enables an Hewlett Packard Enterprise FlexFabric to deliver resilient, scalable, and secured data center networks for physical and virtualized environments, groups up to nine 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 RIPv2

**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
  HPE 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
  See hpe.com/networking/warrantysummary for warranty and support information included with your product purchase

• Software releases
  To find software for your product, refer to hpe.com/networking/support; for details on the software releases available with your product purchase, refer to hpe.com/networking/warrantysummary
HPE FlexFabric 5700 Switch Series

### Specifications

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<th>Fan tray</th>
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<td>40 fixed 1000/10000 SFP+ ports 2 QSFP+</td>
<td>1 RJ-45 serial console port</td>
<td>2 power supply slots (ordered separately)</td>
<td>2 fan tray slots</td>
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<tr>
<td></td>
<td></td>
<td>1 RJ-45 out-of-band management port</td>
<td>1 minimum power supply required (ordered separately)</td>
<td>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 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.</td>
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<tr>
<td></td>
<td></td>
<td>1 USB 2.0</td>
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| HPE FlexFabric 5700-48G-4XG-2QSFP+ Switch (JG894A) | 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+ | 1 RJ-45 serial console port              | 2 power supply slots (ordered separately)            | 2 fan tray slots                                                        |
|                                            |                                                                                      | 1 RJ-45 out-of-band management port      | 1 minimum power supply required (ordered separately) | 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. |
|                                            |                                                                                      | 1 USB 2.0                               |                                                     |                                                                 |

| HPE FlexFabric 5700-32XGT-8XG-2QSFP+ Switch (JG898A) | 32 RJ-45 1/100BASE-T ports; Duplex: 100BASE-TX/1000BASE-T/10GBASE-TX: Full Only 8 fixed 1000/10000 SFP+ ports 2 QSFP+ | 1 RJ-45 serial console port              | 2 power supply slots (ordered separately)            | 2 fan tray slots                                                        |
|                                            |                                                                                      | 1 RJ-45 out-of-band management port      | 1 minimum power supply required (ordered separately) | 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. |
|                                            |                                                                                      | 1 USB 2.0                               |                                                     |                                                                 |

### 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

### Memory and processor

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

### Performance

- **10 Gb/s Latency**: < 1.5 µs (64-byte packets)
- **Through put**: 714 Mpps
- **Routing/Switching capacity**: 960 Gb/s
- **Routing table size**: 128 entries (IPv4), 128 entries (IPv6)
- **MAC address table size**: 128000 entries

### Additional notes

- 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.
### HPE FlexFabric 5700 Switch Series (continued)

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

#### Electrical characteristics
- **Frequency**: 50/60 Hz
- **AC voltage**: 100–240 VAC
- **DC voltage**: -48 to -60 VDC
- **Maximum power rating**: 162 W
- **Idle power**: 90 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. |
|       |     |

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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**

#### Emissions

#### Compliance
- **ETSI EN 300 386 V1.3.3**
- **EN 61000-4-2; IEC 61000-4-2**
- **EN 61000-4-3; IEC 61000-4-3**
- **EN 61000-4-4; IEC 61000-4-4**
- **EN 61000-4-5; IEC 61000-4-5**
- **EN 61000-4-6; IEC 61000-4-6**
- **IEC 61000-4-8; EN 61000-4-8**
- **IEC 61000-4-11; EN 61000-4-11**
- **IEC 61000-3-2, IEC 61000-3-2**
- **IEC 61000-3-3, IEC 61000-3-3**

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

#### Services
- **Refer to the Hewlett Packard Enterprise website at hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services, and response times in your area, please contact your local Hewlett Packard Enterprise sales office.**
## HPE FlexFabric 5700 Switch Series (continued)

### Standards and Protocols

(applies to all products in series)

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| Network management | RFC 3164 BSD syslog Protocol |

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<td>RFC 3455 SNMP-View based-ACM MIB</td>
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**Transceivers**

- HPE X120 1G SFP LC LH40 1550nm Transceiver (JD062A)
- HPE X120 1G SFP LC 8X 10- U Transceiver (JD098B)
- HPE X120 1G SFP LC 8X 10- D Transceiver (JD099B)
- HPE X120 1G SFP LC NX Transceiver (JD119B)
- HPE X120 1G SFP RJ45 T Transceiver (JD089B)
- HPE X120 1G SFP LC SX Transceiver (JD118B)
- HPE X125 1G SFP LC LH40 1310nm Transceiver (JD061A)
- HPE X125 1G SFP LC LH70 Transceiver (JD063B)
- HPE X130 10G SFP+ LC SR Transceiver (JD092B)
- HPE X130 10G SFP+ LC LR Transceiver (JD093B)
- HPE X130 10G SFP+ LC LR Transceiver (JD094B)
- HPE X130 10G SFP+ LC ER 40km Transceiver (JG234A)
- HPE X130 10G SFP+ LC LH80 Tunable Transceiver (JL250A)
- HPE X140 40G QSFP+ MPO SR4 Transceiver (JG325A)
- HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver (JL251A)
- HPE X140 40G QSFP+ LC LR4 10km 1310nm Transceiver (JG661A)
- HPE X140 40G QSFP+ LC LR4 2km SM Transceiver (JL286A)
- HPE X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable (JD095C)
- HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable (JD096C)
- HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (JD097C)
- HPE X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable (JG081C)
- HPE X240 10G SFP+ to SFP+ 7m Direct Attach Copper Cable (JC784C)
- HPE X2AO 10G SFP+ to SFP+ 10m Active Optical Cable (JL290A)
- HPE X2AO 10G SFP+ to SFP+ 20m Active Optical Cable (JL292A)
- HPE X2AO 40G QSFP to QSFP+ 1m Direct Attach Copper Cable (JG326A)
- HPE X2AO 40G QSFP to QSFP+ 3m Direct Attach Copper Cable (JG327A)
- HPE X2AO 40G QSFP to QSFP+ 5m Direct Attach Copper Cable (JG328A)
- HPE X2AO 40G QSFP to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable (JG329A)
- HPE X2AO 40G QSFP to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable (JG330A)
- HPE X2AO 40G QSFP to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable (JG331A)
- HPE X2AO 40G QSFP to QSFP+ 7m Direct Attach Copper Cable (JL287A)
- HPE X2AO 40G QSFP+ to QSFP+ 10m Active Optical Cable (JL288A)
- HPE X2AO 40G QSFP+ to QSFP+ 20m Active Optical Cable (JL289A)
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