Data sheet

HPE Networking Comware Switch Series 5944



What's new

- High-density, high-performance top-of-rack switch with 48 x 1/10 GbE Base-T ports and 6 x 40 or 100 GbE QSFP28 uplink ports.
- HPE FlexFabric Network Analytics solution supporting application telemetry and real time microburst congestion detection.
- HPE IMC Orchestrator and Analyzer offers enhanced network operations and centralized management with orchestration, automation, and analytical capabilities.
- Virtual Extensible LAN (VXLAN) supports greater scalability of Layer 2 and L3 overlay service and multicast.
- Industry-standard Distributed Resilient Network Interconnection (DRNI) enables device level link aggregation for simpler network topology and ease of operation.
- HPE Intelligent Resilient Fabric (IRF) technology allows greater resilience and scalability with IRF stacking.

Overview

The HPE FlexFabric 5944 Switch series consists of high-density, low-latency top-of-rack (ToR) switches suited for deployment at the aggregation or server access layer of enterprise data centers and cloud service provider environments.
Delivering high performance switching capacity with ASICs,10G-BaseT connectivity, Virtual Extensible LAN (VXLAN), Multiprotocol Label Switching (MPLS), and Multicast, the HPE FlexFabric 5944 Switch series offers a choice that fits your budget and delivers low TCO.
The HPE FlexFabric 5944 Switch series includes HPE FlexFabric Network Analytics that enhances visibility and network manageability with real-time telemetry collection and analysis. It also supports automated network overlay/underlay deployment with HPE IMC Orchestrator and Analyzer.

Features

High Density, Advanced Data Center Switches with HPE FlexFabric Network Analytics

The HPE FlexFabric 5944 Switch Series offers a cost effective and high-density ToR switch with 48 x 1/10 GbE BASE-T ports and 6 x 40/100 GbE high speed uplink QSFP28 ports.

Supports HPE FlexFabric Network Analytics that offers real-time telemetry analysis and network operation insight with microburst congestion detection, rich congestion analytics, and buffer congestion statistics.

Support advanced orchestration capabilities, network automation, micro segmentation, and analytical insights with HPE IMC Orchestrator and Analyzer.

VXLAN support for network virtualization and overlay solutions for improved flexibility.

High Performance Data Center Switching

The HPE FlexFabric 5944 Switch Series delivers up to 2.16Tbps switching capacity for demanding data center applications.

Supports up to 1001.7 MPPS throughput for data-intensive environments.

Low latency, under 1µs for 40GbE, delivering increased network throughput.

Supports IEEE 802.1Qbb Priority Flow Control (PFC), Data Center Bridging Exchange (DCBX) and IEEE 802.1Qaz Enhanced Transmission Selection (ETS), providing low latency for converged FCoE environments.

Business Agility and Resilience with HPE Comware

The HPE FlexFabric 5944 Switch Series delivers scalability and enhances reliability of the network with HPE Intelligent Resilient Fabric(IRF) technology. IRF stacking enables uninterrupted L2 switching and L3 forwarding to reduce operational complexity with simpler, flatter, and more agile networks.

Distributed Resilient Network Interconnection (DRNI) enables link aggregation from multiple switches to implement device-level link backup for node redundancy. DRNI also simplifies network topology by virtualizing two physical devices into a logical device.

IRF and In-Service Software Update (ISSU) enable high availability with modular updates accomplished in the background without downtime.

Simplicity and Lower TCO

HPE FlexFabric 5944 Switch Series simplifies switch management by up to 88% with 9-unit Hewlett Packard Enterprise Intelligent Resilient Fabric (IRF).

Supports centralized configuration, compliance and policy management, monitoring, and troubleshooting with HPE Intelligent Management Center (IMC) to provide a consistent network manageability experience.

No hidden costs with a simple one license per switch for all software features.

All switch ports are active and ready to use without the need for activation licenses.

Technical specifications	HPE Networking Comware Switch Series 5944
Power consumption	320W maximum
Heat dissipation	887 BTU/hr
Input voltage	100VAC to 240VAC, or –40VDC to –60VDC, depending on installed power supplies
Ports	48 x 1/10GBASE-T ports 6 x QSFP28 100GbE ports
Latency	< 1 µs (64-byte packets)
Routing/switching capacity	2.16 Tbps, maximum
Stacking capabilities	Up to 10 HPE FlexFabric 5944 switches
Throughput	Up to 1001.7 Mpps
Memory and processor	4 GB flash 8 GB SDRAM
Management features	In-band & out-of-band management CLI, Telnet/SSHv2 / FTP / HPE Intelligent Management Console (IMC)
Warranty	1-year Warranty See www.hpe.com/networking/warrantysummary for warranty and support information included with your product purchase.; Software releases: for details on the software releases available with your product purchase; refer to www.hpe.com/networking/warrantysummary.

Related Options

The following options are available for these series:

SKU	Description
Cables/Cable Kits	
JL271A	HPE Networking X240 100G QSFP28 1m DAC Cable
JL272A	HPE Networking X240 100G QSFP28 3m DAC Cable
JL273A	HPE Networking X240 100G QSFP28 5m DAC Cable
Fans/Fan Options	
JL837A	HPE Networking 5944 Port-to-Power Fan Module
JL838A	HPE Networking 5944 Power-to-Port Fan Module
Networking Software	
JL850AAE	HPE Networking IMC Orchestrator Analyzer Add-on License E-LTU
JL852AAE	HPE Networking IMC Orchestrator Analyzer IP Host Add-on License E-LTU
JL849AAE	HPE Networking IMC Orchestrator Base License E-LTU
JL851AAE	HPE Networking IMC Orchestrator Network Node Add-on License E-LTU
Transceiver Options	
JG326A	HPE Networking Comware X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable
JG327A	HPE Networking Comware X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable
JG328A	HPE Networking Comware X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable
JL287A	HPE Networking X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable
JL288A	HPE Networking X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable
JL289A	HPE Networking X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable
JL796A	HPE Networking X2A0 100G QSFP28 5m Active Optical Cable
JL795A	HPE Networking X2A0 100G QSFP28 30m Active Optical Cable
JL276A	HPE Networking X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable
JL277A	HPE Networking X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable
JL278A	HPE Networking X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable
JD120B	HPE Networking X110 100M SFP LC LX Transceiver
JD102B	HPE Networking X115 100M SFP LC FX Transceiver
JD119B	HPE Networking X120 1G SFP LC LX Transceiver
JD118B	HPE Networking X120 1G SFP LC SX Transceiver
JD089B	HPE Networking X120 1G SFP RJ45 T Transceiver
JG709A	HPE Networking X140 40G QSFP+ CSR4 300m Transceiver

JG661A	HPE Networking X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver
JL286A	HPE Networking X140 40G QSFP+ LC LR4L 2km SM Transceiver
JG325B	HPE Networking X140 40G QSFP+ MPO SR4 Transceiver
JQ344A	HPE Networking X150 100G QSFP28 LC BiDi 100m MM Transceiver
JL275A	HPE Networking X150 100G QSFP28 LC LR4 10km SM Transceiver
JL274A	HPE Networking X150 100G QSFP28 MPO SR4 100m MM Transceiver

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
HB4Q5E	HPE Aruba Networking Foundational Care 1Y 4HR Exch FF 594x Switch SVC
HB4Q9E	HPE Aruba Networking Foundational Care 1Y 4HR Onsite CDMR FF 594x Switch SVC
HB4Q8E	HPE Aruba Networking Foundational Care 1Y 4HR Onsite FF 594x Switch SVC
HB4R1E	HPE Aruba Networking Foundational Care 1Y CTR 6-Hour CDMR FF 594x Switch SVC
HB4R0E	HPE Aruba Networking Foundational Care 1Y CTR 6-Hour FF 594x Switch SVC
HB4Q4E	HPE Aruba Networking Foundational Care 1Y NBD Exch FF 594x Switch SVC
HB4Q7E	HPE Aruba Networking Foundational Care 1Y NBD Onsite CDMR FF 594x Switch SVC
HB4Q6E	HPE Aruba Networking Foundational Care 1Y NBD Onsite FF 594x Switch SVC
HB4R3E	HPE Aruba Networking Foundational Care 3Y 4HR Exch FF 594x Switch SVC
HB4S4E	HPE Aruba Networking Foundational Care 3Y 4HR Onsite CDMR FF 594x Switch SVC
HB4S3E	HPE Aruba Networking Foundational Care 3Y 4HR Onsite FF 594x Switch SVC
HB4T0E	HPE Aruba Networking Foundational Care 3Y CTR 6-Hour CDMR FF 594x Switch SVC
HB4S9E	HPE Aruba Networking Foundational Care 3Y CTR 6-Hour FF 594x Switch SVC
HB4R2E	HPE Aruba Networking Foundational Care 3Y NBD Exch FF 594x Switch SVC
HB4R7E	HPE Aruba Networking Foundational Care 3Y NBD Onsite CDMR FF 594x Switch SVC
HB4R6E	HPE Aruba Networking Foundational Care 3Y NBD Onsite FF 594x Switch SVC
HB4V9E	HPE Aruba Networking Foundational Care 5Y 4HR Exch FF 594x Switch SVC
HB4X0E	HPE Aruba Networking Foundational Care 5Y 4HR Onsite CDMR FF 594x Switch SVC
HB4W9E	HPE Aruba Networking Foundational Care 5Y 4HR Onsite FF 594x Switch SVC
HB4X6E	HPE Aruba Networking Foundational Care 5Y CTR 6-Hour CDMR FF 594x Switch SVC
HB4X5E	HPE Aruba Networking Foundational Care 5Y CTR 6-Hour FF 594x Switch SVC
HB4V8E	HPE Aruba Networking Foundational Care 5Y NBD Exch FF 594x Switch SVC

HB4W3E	HPE Aruba Networking Foundational Care 5Y NBD Onsite CDMR FF 594x Switch SVC
HB4W2E	HPE Aruba Networking Foundational Care 5Y NBD Onsite FF 594x Switch SVC
UX120E	HPE Aruba Networking Networks 5810 5800 Series Switch Installation SVC
U8JL9E	HPE Aruba Networking Switch Startup SVC

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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