

HPE Networking Comware Switch Series 5140 EI

HPE Networking Comware Switch 48G PoE+ 4SFP+ EI 5140 (JL824A)



What's new

- Gigabit Ethernet access switch with static layer 3 routing, RIP, high density 10 GbE uplinks, and POE+ models for voice, video, and wireless.
- It supports IRF technology that enables plug-and-play device aggregation and link aggregation across multiple devices, enhancing network redundancy and resource utilization.
- It includes embedded network management capabilities with Smart Management Center (SmartMC).
- It includes energy-saving green design features such as automatic switching of idle ports to energy-saving mode and powering down unused ports.

Overview

The HPE Networking Comware Switch Series 5140 EI delivers scalability, high availability, and low TCO at the access layer of medium and large enterprise campus networks. The series offers enterprise-class QoS and security, HPE Intelligent Resilient Fabric (IRF) stacking, static layer 3 routing and RIP; convenient fixed 10 GbE uplink ports, PoE+, ACLs, and IPv6; and delivers energy savings with Energy Efficient Ethernet.

The HPE Networking Comware Switch Series 5140 EI also includes Smart Management Center (SmartMC), an embedded network management tool that can be leveraged at no additional cost by small and medium networks for centralized management and operations. The series can also be managed with HPE Aruba Networking IMC for a single view of your entire network.

Features

Scalability and High Availability

The HPE Networking Comware Switch Series 5140 EI delivers scalability and enhances reliability of the network with HPE Intelligent Resilient Framework (IRF) technology. IRF stacking enables virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router.

HPE IRF stacking enhances performance and reliability with uninterrupted L2 switching and L3 forwarding and reduces operational complexity with simpler, flatter, and more agile networks.

Four fixed uplinks (SFP, SFP+, and 10GBASE-T) deliver performance for bandwidth intensive applications.

Link redundancy with support for protocols such as Spanning Tree/MSTP, RSTP, and Smart link provides high availability.

Comprehensive Security Control

The HPE Networking Comware Switch Series 5140 EI supports flexible authentication methods including 802.1X and MAC Authentication for greater security and policy-driven application authentication. Per-user access control lists (ACLs) provide identity-driven security and access control.

ACLs provide IP Layer 2 to Layer 4 traffic filtering while supporting global ACL, VLAN ACL, port ACL, and IPv6 ACL.

Dynamic ARP protection with functions such as ARP Detection and ARP packet validation that block broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data.

Centralized security policy management and network protection with HPE Aruba Networking IMC End User Admission Domination (EAD) which integrates security policies, network access control, and access right control policies to form a cooperative security system.

Enhance security with encryption of access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3, and other features including DHCP protection, IP source guard, and RADIUS/HWTACAS.

Simplified Management

The HPE Networking Comware Switch Series 5140 EI can be seamlessly managed with HPE Aruba Networking IMC to provide end-to-end network transparency with a consistent network experience through comprehensive configuration, compliance, and policy management.

It supports SmartMC, an embedded network management tool with a web-based GUI to simplify operations and facilitate centralized management. It offers features such as configuration backup, software version management and seamless switch replacement.

RMON and sFlow provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events.

Enhanced Quality of Service

The HPE Networking Comware Switch Series 5140 EI supports advanced classifier-based QoS which groups traffic using multiple match criteria based on Layer 2 and 3 information; it applies QoS policies such as setting priority level and rate limit to selected traffic on a port, VLAN, or entire switch.

It provides traffic prioritization with supported congestion actions include: strict priority (SP) queuing, weighted round robin (WRR), weighted random early detection (WRED), and SP+WRR and traffic policing with Committed Access Rate (CAR) and line rate.

Reduce unwanted network traffic with broadcast control and limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic.

Technical specifications		HPE Networking Comware Switch 48G PoE+ 4SFP+ EI 5140
Product Number	JL824A	
Power consumption	478W (Maximum), 47W (Idle) 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. PoE power is the power supplied by the internal power supply. When supplemented with the use of an HPE RPS1600, up to 740W of PoE+ can be supplied. Maximum current rating for DC power is 25A. AC input power is 47W typical and 490W maximum (including 370W PoE+ consumption). DC input voltage range is -54 VDC to -57 VDC. Total DC input power is 43W typical and 890W with 800W PoE+ power consumption. DC input voltage range is -54 VDC to -57 VDC. DC input source is the HPE RPS1600.	
Heat dissipation	Maximum: 160/1671 BTU/hr. (168.8/1762.91 kJ/hr.) for AC power. For DC power, minimum heat dissipation is 147 BTU/hr. and 3037 BTU/hr. maximum.	
Input voltage	AC Voltage: 100 VAC–240 VAC DC Voltage: -54 VDC to -57 VDC	
Ports	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: Ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only); 4 SFP+ 1000/10000 SFP+ ports; 1 RJ-45 serial console port	
Latency	1000 Mb latency: < 5 μs 10 Gbps latency: < 3 μs	
Routing capabilities	Table Size: 1024 entries; MAC address: 16,384 entries IPv6 Ready Certified	
Switching capacity	176 Gbps	
Stacking capabilities	IRF 9 switches	
Throughput	131 Mpps	
Memory and processor	512 MB SDRAM, 256 MB flash	
Power supply	At least 1 power supply is required (not included, must be ordered separately)	
PoE capability	370W PoE+ Maximum, depending on model	

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Management features	HPE Aruba Networking IMC - Intelligent Management Center SmartMC Command-line interface Web browser SNMP manager
Operating temperature	23°F to 113°F (–5°C to 45°C)
Weight	6 kg
Product dimensions	4.36 x 44 x 40 cm
Warranty	Limited lifetime warranty. See the warranty duration guide.

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HPE GreenLake

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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.

Image may differ from the actual product.

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