Hewlett Packard Enterprise

HPE Altoline 6921 48SFP+ 6QSFP+ x86 ONIE AC Front-to-Back Switch (JL317A)

Switches

What's new

- High-density 10GbE copper or fiber SFP+ ports and low latency for demanding applications.
- OCP-certified, ONIE boot loader, choice of network OS, easy installation.
- Intel® x86 CPU, Open-networking and disaggregated solution.
- VXLAN for efficient network virtualization overlay solutions.

Overview

The HPE Altoline 6921 Switch Series is an x86-based OCP certified, open-networking, disaggregated family of low-latency 10GbE data center switches in a 1U form factor. Perfect for deployment in web-scale environments as a 10GbE server access switch; optimized for data center hot/cold aisle deployments with reversible airflow.

Hardware support for VXLAN is ideal for deployment in multi-tenancy and overlay environments. Take advantage of the streamlined design and ONIE boot loader to deploy a choice of network operating systems with the freedom to select the

- 10GbE/40GbE, redundant fans and power supplies for data center deployments.

management and orchestration tools.

Features

Open and Disaggregated Networking for Choice

The HPE Altoline 6921 Switch Series is an OCP certified, open-networking, disaggregated solution that offers customers choice of hardware platforms and network operating systems (NOS).

Includes the Open Network Install Environment (ONIE) loader for easy installation of the network operating system. Choice of network OS, including Cumulus Networks Linux NOS, Pica8 NOS, Big Switch Network Big Monitoring Fabric and Big Switch Network Big Cloud Fabric solution.

Offers a choice of management and orchestration tools from growing ecosystem.

Intel x86 CPU subsystem provides ability to load common 3rd party applications and utilities

Wire Speed of 10GbE and 40GbE for Scalability and demanding applications

The HPE Altoline 6921 Switch Series provides high density of 48 x 10GBASE-T or 10GbE SFP+ and 6 x 40GbE fiber uplink ports for high-performance and flexible deployments.

Supports up to 48 x 10GbE links for server scalability with 6 x 40GbE uplinks.

With hardware VXLAN VTEP support the switch works well for multi-tenancy and overlay technologies.

Provides the flexibility for 10GbE top-of-rack deployments.

High-performance Data Center Switching

The HPE Altoline 6921 Switch Series delivers 1.44 Tbps switching capacity and up to 1 BPPS throughput for the most demanding applications and data intensive environments.

Ultra fast 40 Gbps Latency > .6 s for amazing response time.

With up to 6 x 40GbE QSFP+ ports the switch has a solution for blazing fast uplinks.

The redundant power supplies and fans combat temperature issues in hot/cold isles deployments.

Simplicity and Lower TCO

The HPE Altoline 6921 Switch Series simplifies switch deployment, management and orchestration with choice of tools from the robust Linux® community and ecosystem.

With streamlined hardware and multiple software options, the 6921 Switch gives you a better fit for your needs. And with an Intel x86 CPU you have a choice of common software tools for use in server and networking.

Provides economies of scale that meet the needs of your web-scale data centers.

Technical specifications

HPE Altoline 6921 48SFP+ 6QSFP+ x86 ONIE AC Front-to-Back Switch

Product Number (SKU)	JL317A
Differentiator	48 1/10GbE SFP+ and 6 40GbE QSFP+ ports, x86 CPU, dual hot-pluggable AC power supplies and front-to-back fan trays. Ideally suited for deployment at the spine and server access layer in large enterprise data centers.
Ports	(48) SFP+ 1/10GbE ports (6) QSFP+ 40GbE ports
Memory and processor	Intel Atom C2538 quad-core x86 processor @ 2.4 GHz 8 GB DDR3 SDRAM Packet buffer size: 12 MB 8 GB NAND flash
Latency	40 Gbps Latency: < 0.6 s
Throughput	up to 1 Bpps
Routing/switching capacity	1440 Gbps
Management features	Command-line interface Out-of-band management SNMP manager Telnet FTP
Power supply name	2 x PSUs
Input voltage	90 - 264 VAC, rated
Operating humidity range	5 to 95% (noncondensing)
Power consumption	282 W (maximum)
Minimum dimensions (H x W x D)	44.2 x 47.24 x 4.34 cm
Weight	8.5 kg

HPE Pointnext

HPE Pointnext leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes – Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.
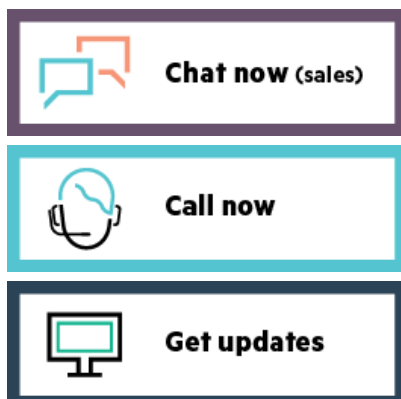
Operational Services

- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.

- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalise deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.

- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.

- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

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