



HPE Altoline 6900 Switch Series

Key features

- High 10/100/1000BASE-T port density
- Open Network Install Environment (ONIE) boot loader for choice of network OS and easy installation
- Open-networking and disaggregated solution for customer choice
- Fanless design for quiet operation
- Dual-core ARM® Cortex-A9 1 GHz

Product overview

HPE Altoline 6900 Switch Series is a top-of-rack (TOR) switch for high-performance data centers. In a compact 1RU form factor, the switch provides line-rate Layer 2 and Layer 3 switching across up to 48 x 10/100/1000BASE-T RJ-45 ports, with 4 x 10GbE QSFP+ and 2 x 20GbE QSFP+ stacking connections.

HPE Altoline 6900 Switch Series can be deployed as a TOR switch supporting gigabit server connections, or as a management switch, with 10GbE uplinks.

HPE Altoline 6900 is a bare-metal switch loaded with the ONIE, which supports the installation of compatible independent switch OS offerings.

Features and benefits

Data center optimized

- Flexible high-port density
HPE Altoline 6900 Switch Series enables scaling of the server edge with 1GbE server connection and 10GbE uplinks to new heights with high density delivered in a 1RU design.
- Redundant power supplies, fanless design
1+1 internal redundant, hot-pluggable power supplies, and a fanless design enhance reliability and availability

Manageability

- 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
- ONIE bootloader
Switch is loaded with ONIE software installer
- Dual-core ARM Cortex-A9 1 GHz
Provides high-performance, low-power consumption, as well as industry-standard software and utilities

Layer 2 switching

- VLAN support
Provides support for 4,096 VLAN IDs

Additional information

- Low-power consumption
Typical operation uses just 122 W of AC power

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 Altoline 6900 Switch Series Specifications

HPE Altoline 6900 48G 4XG 2QSFP ARM ONIE AC Switch (JL223A)

I/O ports and slots	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 SFP+ 10GbE ports (IEEE 802.3ae Type 10GBASE-LR, IEEE 802.3ae Type 10GBASE-SR) 2 QSFP+ stacking ports; 20GbE Stacking ports, software dependent
Additional ports and slots	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 Includes: 2 x PSUs ()
Physical characteristics	
Dimensions	17.32 (w) x 16.1 (d) x 1.72 (h) in. (44 x 40.89 x 4.37 cm) (1U height)
Weight	11.86 lb (5.38 kg)
Memory and processor	
Fabric	Helix4 with embedded Dual-core ARM Cortex-A9 @ 1.0 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 4 MB, 8 GB flash capacity
Performance	
10 Gbps latency	>.6 s
Switching capacity	128 Gbps
Routing table size	12000 entries (IPv4), 6000 entries (IPv6)
MAC address table size	176000 entries
Environment	
Operating temperature	32°F to 113°F (0°C to 45°C)
Operating relative humidity	5% to 95%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
Electrical characteristics	
Voltage	100–240/200 VAC, rated (depending on power supply chosen)
Maximum power rating	122 W
Idle power	92 W
Frequency	50/60 Hz
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.
Safety	IEC 60950-1; EN 60950-1; CSA C22.2 60950-1; EN 55022 Class A; VCCI Class A; ROHS Compliance; FCC Class A: Regulations for Radio Frequency Devices for Electromagnetic Compliance; UL
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CNS 13438; UL 60950; IEC 60950-1
Management	Command-line interface; Out-of-band management (RJ-45 Ethernet); Out-of-band management (serial RS-232C or micro USB)
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 Altoline 6900 Switch Series accessories

Transceivers

HPE X130 10G SFP+ LC SR Transceiver (JD092B)
HPE X130 10G SFP+ LC LR Transceiver (JD094B)
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 X120 1G SFP LC SX Transceiver (JD118B)
HPE X120 1G SFP LC LX Transceiver (JD119B)
HPE X120 1G SFP RJ45 T Transceiver (JD089B)
HPE X240 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable (JG326A)
HPE X240 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable (JG327A)
HPE X240 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable (JG328A)
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver (JG661A)
HPE X140 40G QSFP+ MPO SR4 Transceiver (JG325B)
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver (JG709A)

Mounting kit

HPE Altoline Gen3 Rackmount Kit (JL228A)

Learn more at
[**hpe.com/networking**](https://hpe.com/networking)



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