



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



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