



Key features

- High-performance compute platform
- Environment for ProCurve ONE applications
- Two 10-GbE connections to the switch backplane
- Industry-leading warranty

Datasheet

NEW HP ProCurve ONE Services zl Module

Part of the HP ProCurve ONE Program that enables secure best-in-class applications and services in the ProCurve infrastructure, the HP ProCurve ONE Services zl Module is a x86-based server module that provides two 10-GbE network links into the switch backplane. Coupled with ProCurve-certified services and applications that can take advantage of a switch-targeted API for better performance, this module creates a virtual appliance within a zl switch slot to provide solutions for business needs, such as network security. This services module can be moved to any zl switch in the environment.

HP ProCurve ONE Services zl Module

Features and benefits

Industry-leading warranty



Application support

- **ProCurve ONE application support:** is compatible with ProCurve ONE applications; non-ProCurve ONE applications will not run on the services module, which prevents rogue applications in mission-critical network environments
- **ProCurve ONE applications preinstalled in downloadable form:** ProCurve ONE applications come with their own OS (which may vary depending on the specific application) and are already installed on the OS as part of the application download; as a result, installation of the application on the services module is a straightforward and simple process, avoiding complicated installations into the OS that are typical of other downloaded application environments
- **ProCurve ONE API assistance:** ProCurve ONE applications can get switch software and ASIC assistance through programmatic calls to the ProCurve ONE API; additional performance, configuration, and management assistance will be available to these applications over time

Connectivity

- **Two 10-GbE connections to the switch:** two 10-GbE wire-speed internal connections help ensure that the network connections from application to switch backplane will not limit the performance of the application
- **USB port:** one external USB 2.0 port is available for application use—for example, external hard drives or other forms of mass storage

Performance

- **High-performance network bandwidth:** Two internal wire-speed 10-GbE ports to the switch backplane.
- **High-performance processor system:** An Intel® Core™ 2 Duo T7500 Processor with 2.2 GHz, 4 MB cache provides a high-performance compute environment in a small footprint—a single switch slot.
- **Memory subsystems:** 4 GB of DDR2-667 dual-channel memory provide for quick application performance.

- **Disk drive:** 250 GB SATA II 7200 rpm hard disk drive (210 GB application space plus 40 GB diagnostic/maintenance space) allows quick data read/writes to speed applications along.

Resiliency and high availability

- **Redundant power supplies:** The services module has the same level of power supply redundancy as the switch in which it is installed.
- **Redundant network connections:** Two internal 10-GbE connections are provided between the switch and the services module; applications can take advantage of both links to provide a redundant network connection to the switch backplane.

Security

- **Signed/Licensed applications only:** Only ProCurve ONE Applications, which are signed and licensed through ProCurve and the application provider, can run on the services module.
- **Applications are certified:** ProCurve ONE applications go through certification testing against negative switch effects through API calls or malicious behavior—providing reasonable assurance that applications are well-behaved in the switch and network environment.

Manageability

- **Console port:** application console is available as a pass-through to the switch console function

Ease of use

- **Locator LED:** allows users to set the locator LED on a specific module to either turn on, blink, or turn off; simplifies troubleshooting by making it easy to locate a specific module among other identical or similar modules

Warranty and support

- **ProCurve Lifetime Warranty*:** for as long as you own the product, with next-business-day advance replacement (available in most countries).
- **Electronic and telephone support:** limited electronic and telephone support is available from HP. Refer to the HP Web site at www.procurve.com/support for details on the support provided and the period during which support is available.
- **Software releases:** refer to the HP Web site at www.procurve.com/support for details on the software releases provided and the period during which software releases are available.

* For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products and their related series modules have a one-year hardware warranty with extensions available: HP ProCurve Routing Switch 9300m Series, HP ProCurve Switch 8100fi Series, and HP ProCurve Network Access Controller 800. The following hardware mobility products have a one-year hardware limited warranty with extensions available: HP ProCurve M111 Client Bridge, HP ProCurve MSM3xx-R Access Points, HP ProCurve MSM7xx Mobility and Access Controllers, HP ProCurve RF Manager IDS/IPS Systems, HP ProCurve MSM Power Supplies, and HP ProCurve 1-Port Power Injector. Disk drives in the HP ProCurve ONE Services zl Module have a five-year hardware warranty. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at www.procurve.com/warranty.

HP ProCurve ONE Services zl Module

Specifications



HP ProCurve ONE Services zl Module (J9289A)

Physical characteristics	
Dimensions (D x W x H)	9.75 x 8.13 x 1.75 in. (24.77 x 20.65 x 4.45 cm)
Weight	3.25 lb. (1.47 kg)
Memory and processor	
Processor	Intel T7500 Core 2 Duo @ 2200 MHz, 4 GB DDR2 SDRAM, 4 GB compact flash
Storage	250 GB SATA II 7200 rpm hard disk drive
Environment	
Operating temperature	32°F to 104°F (0°C to 40°C); IMPORTANT: See note for 50°C temperature spec rules
Operating relative humidity	15% to 90% @ 104°F (40°C), non-condensing
Non-operating/Storage temperature	14°F to 149°F (-10°C to 65°C)
Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing
Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	
Maximum heat dissipation	272 BTU/hr (287 kJ/hr)
Maximum power rating	80 W
Notes	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.
Management	
	Command-line interface; Module CLI available through the switch CLI. Applications running on the services module may have additional access and management methods.
Notes	
	The services module can only be used with certified OA services applications. It does not support a general application environment. Chassis operating temperature specifications of the 5400 chassis when the services module is installed: · 40°C when any services module is installed on the left side of the chassis · 50°C when all services modules are installed on the right side of the chassis Up to four services modules can be installed in a 5400/8200 chassis simultaneously. Up to three services modules are supported (all installed in the right half of the chassis) in the 5406 chassis if a 50°C temperature specification is desired. When the services module is installed, the maximum relative humidity for the switch drops from 95% to 90%.
Services	
	Refer to the HP Web site at www.procurve.com/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 HP sales office.



Network of Choice

For more information

To learn more about HP ProCurve Networking, please visit ProCurve.com

© Copyright 2009 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

4AA2-3942ENN, January 2009