Overview

HPE Advanced Services v2 zl Module Series

Model

HPE Advanced Services v2 zl Module with HDD	J9857A
HPE Advanced Services v2 zl Module with SSD	J9858A

Key features

- High-performance compute platform
- Virtual environment for one or multiple VMware vSphere(R) compatible software applications
- Two 10-GbE and one 1-GbE connections to the switch backplane
- Industry-leading warranty

Product overview

HPE Advanced Services v2 zl module is a server module that is hardware compatible with VMware vSphere(R). The solution is best delivered by the HPE "FlexNetwork" that unifies the data center, campus and branch across a Converged Infrastructure. The network is the key component of the HPE Converged Infrastructure, the vehicle for interconnecting all enterprise systems and applications. Building on the Converged Infrastructure, Hewlett Packard Enterprise is offering the Advanced Services v2 zl module solution that offers flexibility, scalability, and agility by enabling VMware vSphere(R) compatible virtualized software applications on the 5400/8200zl switching platforms. The HPE solution converges infrastructure and delivers an open platform to host applications and dramatically simplify application deployments, centralize management, improve business productivity and reduce IT costs. VMware vSphere(R) is not included and must be purchased separately

Features and benefits

Connectivity

- **USB port**
  one external USB 2.0 port is available for application use (for example, external hard drives or other forms of mass storage)
- **10 GbE connections to the switch**
  two 10-GbE wire-speed internal connections and one 1-GbE connection help ensure that network connections from applications to the switch backplane will not limit application performance
- **RS-232 port**
  can be accessed from the switch CLI for initial configuration and deployment
- **10/100/1000Base-T LAN port**
  external LAN port connectivity
- **VGA port**
  video connectivity for a monitor

Ease of use

- **Locator LED (module)**

Overview

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

- **3-year Warranty 2.0**
  see **http://www.hpe.com/networking/warrantysummary** for warranty and support information included with your product purchase
- **Software releases**
  to find software for your product, refer to **http://www.hpe.com/networking/support**; for details on the software releases available with your product purchase, refer to **http://www.hpe.com/networking/warrantysummary**

Performance

- **High-performance processor system**
  Intel® Core i7-3612QE quad core processor subsystem running up to 3.10GHz and a 6MB cache provides a high-performance compute environment in a small footprint using a single switch slot
- **Memory subsystem**
  16GB of DDR3-1333 ECC Dual-channel memory for quick application performance
- **Disk drive**
  1 TB enterprise class SATA HDD (Hard Disk Drive) based on the model, allows quick data reads/writes to speed applications along

Resiliency and high availability

- **Redundant power supplies**
  services module has the same level of power supply redundancy as
  the switch in which it is installed
- **Fault tolerance**
  fault tolerance for applications running on the module is supported by VMware vSphere(R)

Manageability

- **Console port**
  application console is available as a pass-through to the switch console function
- **Virtual machine management**
  VMware vSphere(R) 5.5 compatible

Technical Specifications

HPE Advanced Services v2 zl Module with HDD (J9857A)

Physical characteristics	**Dimensions**	8.13(w) x 9.75(d) x 1.75(h) in (20.65 x 24.77 x 4.45 cm) (1U height)
	Weight	3.00 lb (1.36 kg)
Environment	**Operating temperature**	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 9,842 ft (3 km)
Electrical characteristics	**Maximum heat dissipation**	133/287 BTU/hr (140.32/302.78 kJ/hr)
	Idle power	84 W
	Maximum power rating	39 W
	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.
Management	command-line interface	
Notes	The services module can be used with VMware certified applications. • The HDD has a maximum operational wet bulb temperature of 28°C • The HDD has a maximum non-operational wet bulb temperature of 28°C • Up to four services modules can be installed in a 5406 zl chassis. There are no restrictions on where the modules can go in the chassis • Up to three services modules can be installed in an 8206 zl chassis. There are no restrictions on where the modules can go in the chassis • Up to six services modules can be installed in a 5412 or 8212 zl chassis. There are no restrictions on where the modules can go in the chassis	
Services	Refer to the Hewlett Packard Enterprise website at **http://www.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 Advanced Services v2 zl Module with SSD (J9858A)

Physical characteristics	**Dimensions**	8.13(w) x 9.75(d) x 1.75(h) in (20.65 x 24.77 x 4.45 cm) (1U height)
	Weight	2.75 lb (1.36 kg)
Environment	**Operating temperature**	32°F to 113°F (0°C to 45°C)
	Operating relative	15% to 95% @ 104°F (40°C), noncondensing

Technical Specifications

	humidity	
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
Electrical characteristics	**Maximum heat dissipation**	133/290 BTU/hr (140.32/280.63 kJ/hr)
	Idle power	85 W
	Maximum power rating	37 W
	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.
Management	command-line interface	
Notes	The services module can be used with VMware certified applications. • The SSD has a maximum operational wet bulb temperature of 28°C • The SSD has a maximum non-operational wet bulb temperature of 28°C • Up to four services modules can be installed in a 5406 zl chassis. There are no restrictions on where the modules can go in the chassis • Up to three services modules can be installed in an 8206 zl chassis. There are no restrictions on where the modules can go in the chassis • Up to six services modules can be installed in a 5412 or 8212 zl chassis. There are no restrictions on where the modules can go in the chassis	
Services	Refer to the Hewlett Packard Enterprise website at **http://www.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.	

Summary of Changes

Date	Version History	Action	Description of Change
29-Apr-2016	From Version 1 to 2	Changed	SKU descriptions updated

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