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Technical white paper

# Aruba 5400R zl2 v2 to v3 Modules

Compatibility and upgrade guide



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## Introduction

The Aruba 5400R z12 v3 Modules are 10 new next generation campus L3 full featured ProVision modules for the HPE 5400R Switch Series. The 6th Generation HP Networking ASIC offers enhanced fully flexible OpenFlow and SDN capabilities, programmability, improved speed/per slot bandwidth. They provide 10GBase-T features and including HPE Smart Rate: 1G/2.5G/5G /10G Copper PoE+ multi -rate ports with MACsec.

**Note:** Before installing any module, ensure you have loaded the most current software for that module onto your switch, that is, KB.15.17.xxxx for the v3 modules software version. You can install any of the modules into any of the HPE networking chassis z12 switches that have compatible module slots.

## Compatibility

The v3 modules are only supported on the 5400R z12 Switch Series. They are not supported on the 5400 z1 and 8200 z1 switch series. The use of v1 modules is not supported on the 5400R z12 Switch Series.

**Table 1.** Product compatibility.

Module version	5400 z1	8200 z1	5400R z12
v1 z1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
v2 z1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
v3 z12			<input checked="" type="checkbox"/>

## Product modes

The 5400R switch runs in two modes,

**Compatibility mode:** This is the default mode. This mode allows the 5400R chassis to run both v2 and v3 modules, but the software feature set will be equivalent to v2 (i.e., cannot enable any v3 specific software feature).

**V3 only mode:** Some features are supported in V3 only mode so you need to “turn off” the v2 modules. When moving from the default v2-compatible mode to v3-only mode, the switch reboot is required.

```
HPE-5406Rz12(config)# no allow-v2-modules
```

**Table 2.** Product modes.

	V3 modules (v3 only mode)	V3 modules (Compatibility mode)	V2 modules (Compatibility mode)
Bandwidth/slot	80 Gbps	80 Gbps	40 Gbps
HPE Smart Rate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
40G Ports	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
MACsec	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
v3 SDN capability: Fully flexible OpenFlow	<input checked="" type="checkbox"/>		
v2 SDN capability		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Upgrade

The v2 and v3 modules are hot swappable. Table 3 shows the v2 and v3 modules that can be swapped without any change in the configuration of the module.

**Table 3.** v2 to v3 modules.

J# (v2)	Module name	J# (v3)	Module name
J9534A (v2)	24-port 10/100/1000 PoE+ module	J9986A (v3)	HP 24p 10/100/1000BASE-T PoE+ v3 zl2 Mod
J9537A (v2)	HP 24-port SFP v2 zl Module	J9988A (v3)	HP 24p 1GbE SFP v3 zl2 Mod
J9538A (v2)	HP 8-port 10GbE SFP+ v2 zl	J9993A (v3)	HP 8p 1G/10GbE SFP+ v3 zl2 Mod
J9546A (v2)	HP 8-port 10GBase-T v2 zl	J9995A (v3)	HP 8p 1/2.5/5/10GBASE-T PoE+ v3 zl2 Mod
J9550A (v2)	HP 24-port Gig-T v2 zl Module	J9986A (v3)	HP 24p 10/100/1000BASE-T PoE+ v3 zl2 Mod
J9550A (v2)	HP 24-port Gig-T v2 zl Module	J9987A (v3)	HP 24p 10/100/1000BASE-T v3 zl2 Mod
J9637A (v2)	12pGig-T PoE+ / 12p SFP v2 zl	J9989A (v3)	HP 12-port 10/100/1000BASE-T PoE + 12-port 1GbE SFP v3 zl2 Module

If you swap modules of any other combinations than the above, the port references to anything in that affected slot would be wiped out, and those ports would go back to their default assignments:

- Ports auto speed configuration
- All those ports would go back to the default VLAN (VLAN 1)
- Any ports used as trunk disappear

If you have an empty slot, you can pre-configure it for the v3 module and then move the cables.

### For more information

<http://www.arubanetworks.com/>