

## Cisco Virtual Switching Supervisor Engine 720 with 10 Gigabit Ethernet Uplinks

**Q. What is the Cisco® Virtual Switching Supervisor Engine 720 with 10 Gigabit Ethernet uplinks?**

- A.** The Cisco Virtual Switching Supervisor Engine 720 with 10 Gigabit Ethernet uplinks is the latest supervisor in the Supervisor Engine 720 family with two 10 Gigabit Ethernet uplinks.

Please refer to the data sheet at

[http://www.cisco.com/en/US/products/hw/switches/ps708/products\\_data\\_sheet0900aecd806ed759.html](http://www.cisco.com/en/US/products/hw/switches/ps708/products_data_sheet0900aecd806ed759.html) that provides a good introduction to the supervisor capabilities.

This supervisor engine can operate in one of two modes: VSS 1440 mode by enabling the Cisco VSS feature, and non-VSS mode. The 10 Gigabit Ethernet uplinks will ease the uplink migration from Gigabit Ethernet to 10 Gigabit Ethernet.

**Q. How do I order the Supervisor Engine 720 with 10 Gigabit Ethernet uplinks?**

- A.** There are two ways to order the Supervisor Engine 720 with 10 Gigabit Ethernet uplinks.

**Option A:** Order the supervisor engine using the following product IDs:

- VS-S720-10G-3C
- VS-S720-10G-3CXL

You can order these as standalone or configure them in a chassis. Note that these product IDs include Cisco IOS® Software IP Services image at no additional cost and support the VSS 1440 mode when configured with a single supervisor in each chassis.

**Option B:** Order the supervisor engine, as part of a bundle, using the following product IDs:

- VS-C6504E-S720-10G
- VS-C6506E-S720-10G
- VS-C6509E-S720-10G
- VS-C6509VE-S720-10G
- VS-C6513-S720-10G

Cisco has created these bundle options to support Layer 2 access applications with VS-S720-10G-3C<sup>1</sup>. Note that these product IDs include Cisco IOS® Software IP Base image at no additional cost and support the VSS 1440 mode when configured with a single supervisor in each chassis<sup>2</sup>.

Furthermore, these bundles can be upgraded to support Cisco IOS® Software IP Services image or above with either

- a. the purchase of a redundant supervisor within the bundle. However, once a redundant supervisor is added, the system can only operate in a non-VSS mode.
- b. or the purchase of a standalone Cisco IOS Software IP Services license outside of the bundle. This can be accomplished by purchasing 6500-SW-SPARECD and selecting the appropriate software from the

<sup>1</sup> VS-S720-10G-3CXL not available with the bundles

<sup>2</sup> VSS 1440 mode supported in IP Base starting with 12.2(33)SX11

“Supervisor 720 10G Software” options. For Advanced IP Services images or Advanced Enterprise images, you need to follow a two-step process of

- i. purchasing IP Services first and then
- ii. purchasing either of the Advanced images.

**Q. Do these VS-bundles support the Supervisor Engine 720 with 10 Gigabit Ethernet uplinks in VSS 1440 mode?**

**A.** Yes. Starting with 12.2(33)SX11, customers can order the bundle and operate the supervisor engine in VSS 1440 mode, using Cisco IOS® Software IP Base images and above.

**Q. Are these bundles specific to the Virtual Switching System 1440?**

**A.** No. These bundles are specifically designed for the Layer 2 Access market.

**Q. What do these bundles include?**

**A.** Bundle price includes a chassis, fan tray, single supervisor engine (VS-S720-10G-3C only) and Cisco IOS Software IP Base image. Customers can configure the bundle by adding a redundant supervisor card<sup>3</sup>, required line cards, service modules, WAN cards, and power supplies.

Software image options for the bundle product IDs with the default (primary) supervisor engine and added (redundant) supervisor engines are given in Table 1.

**Table 1.** Product IDs and Descriptions

Product ID		Description
<b>With Primary Supervisor Engine Only</b>		
SV33IBL-12233SXI	SV33IBL-12233SXH	Cisco CAT6000-VSS720 IOS IP BASE LAN ONLY
SV33IBN-12233SXI	SV33IBN-12233SXH	Cisco CAT6000-VSS720 IOS IP BASE LAN ONLY (MODULAR)
SV33IBK9L-12233SXI	SV33IBK9L-12233SXH	Cisco CAT6000-VSS720 IOS IP BASE SSH LAN ONLY
SV33IBK9N-12233SXI	SV33IBK9N-12233SXH	Cisco CAT6000-VSS720 IOS IP BASE SSH LAN ONLY (MODULAR)
<b>With Redundant Supervisor Engine Only</b>		
SV33IS-12233SXI	SV33IS-12233SXH	Cisco CAT6000-VSS720 IOS IP SERVICES
SV33ISM-12233SXI	SV33ISM-12233SXH	Cisco CAT6000-VSS720 IOS IP SERVICES (MODULAR)
SV33ISK9-12233SXI	SV33ISK9-12233SXH	Cisco CAT6000-VSS720 IOS IP SERVICES SSH - Default
SV33ISK9M-12233SXI	SV33ISK9M-12233SXH	Cisco CAT6000-VSS720 IOS IP SERVICES SSH (MODULAR) - DEFAULT
SV33AIK9L-12233SXI	SV33AIK9L-12233SXH	Cisco CAT6000-VSS720 IOS ADV IP SERV SSH LAN ONLY
SV33AIK9N-12233SXI	SV33AIK9N-12233SXH	Cisco CAT6000-VSS720 IOS ADV IP SERV SSH LAN ONLY (MODULAR)
SV33AIK9-12233SXI	SV33AIK9-12233SXH	Cisco CAT6000-VSS720 IOS ADVANCED IP SERVICES SSH
SV33AIK9M-12233SXI	SV33AIK9M-12233SXH	Cisco CAT6000-VSS720 IOS ADVANCED IP SERVICES SSH (MODULAR)
SV33AEK9L-12233SXI	SV33AEK9L-12233SXH	Cisco CAT6000-VSS720 IOS ADV ENT SERV SSH LAN ONLY
SV33AEK9N-12233SXI	SV33AEK9N-12233SXH	Cisco CAT6000-VSS720 IOS ADV ENT SERV SSH LAN ONLY (MODULAR)
SV33AEK9-12233SXI	SV33AEK9-12233SXH	Cisco CAT6000-VSS720 IOS ADVANCED ENTERPRISE SERVICES SSH
SV33AEK9M-12233SXI	SV33AEK9M-12233SXH	Cisco CAT6000-VSS720 IOS ADVANCED ENT SERVICES SSH (MODULAR)

**Q. Can I order IP Services and above within the bundle?**

**A.** Yes, only if a second (redundant) supervisor engine is configured within the bundle. However, if you stay with one (default) supervisor engine, then IP Base is the only valid option within the bundle.

<sup>3</sup> Redundant supervisor not supported in VSS 1440 mode

- Q. Is it possible to upgrade a bundle configuration with IP Services and above at a later point in time?**
- A.** Yes, it is possible to upgrade the bundle with IP Services. Please refer to the second question from top for more details.
- Q. I am familiar with Cisco Catalyst® 6500 Series Switches product IDs starting with WS. However, the above-mentioned supervisor engine and the bundles including the supervisor engine start with VS. What does VS mean?**
- A.** VS at the beginning of the product ID denotes “virtual switching” and indicates that this supervisor engine can enable the Virtual Switching System 1440.
- Q. Does that mean that the Supervisor Engine 720 with 10 Gigabit Ethernet uplinks will only operate in virtual switching mode?**
- A.** VSS is a software feature that is enabled by the Supervisor Engine 720 with 10 Gigabit Ethernet uplinks. This supervisor engine can be used in a non-VSS mode.
- Q. I understand that in VSS 1440 mode, there are some line-card and service module considerations. Is there any such consideration in non-VSS mode?**
- A.** In non-VSS mode, this supervisor engine supports a broader range of line cards and service modules. Please refer to the Catalyst 6500 release notes for more information.
- Q. I have the Sup720-3B/XL. I would like to upgrade to the new supervisor engine. What is my option?**
- A.** The Cisco Technology Migration Program provides an option to upgrade from the Sup720-3B/XL to the Sup720-10G-VSS. Talk to your Cisco field representative about the upgrade program.
- Q. Do CEF720-based DFC3B/XLs work with this supervisor engine?**
- A.** Yes, CEF720-based DFC3/3B/XLs work with the Sup720-10G-VSS. Table 3 shows the supported combinations and the system operating mode in each combination.

**Table 2.** Supported Combinations

	WS-F6700-DFC3B	WS-F6700-DFC3BXL	WS-F6700-DFC3C	WS-F6700-DFC3CXL
<b>WS-SUP720-3B</b>	PFC3B functionality	PFC3B functionality	PFC3B functionality	PFC3B functionality
<b>WS-SUP720-3BXL</b>	PFC3B functionality	PFC3BXL functionality	PFC3B functionality?	PFC3BXL functionality
<b>VS-S720-10G-3C</b>	PFC3B functionality	PFC3B functionality	PFC3C functionality	PFC3C functionality
<b>VS-S720-10G-3CXL</b>	PFC3B functionality	PFC3BXL functionality	PFC3C functionality	PFC3CXL functionality



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