Cisco Nexus 7000 9-Slot Switch

Q. What is the Cisco Nexus® 7009 Switch?

A. The Cisco Nexus 7009, 9-Slot Switch is the third chassis in the Cisco Nexus 7000 Series Switches portfolio. The portfolio currently includes the Cisco Nexus 7010, 10-Slot chassis and Nexus 7018, 18-Slot chassis. The Nexus 7009 switch has a compact form factor and is well suited for environments with limited space. This chassis supports seven I/O modules and two supervisor modules.

Q. Does the Cisco Nexus 7009 support any of the existing Cisco Nexus 7000 Series components?

A. The Cisco Nexus 7009 is backward compatible with all existing Cisco Nexus 7000 Series I/O modules, supervisor modules, and power supplies. This compatibility provides investment protection for customers and the flexibility of common sparing across all Cisco Nexus 7000 Series chassis.

Q. What components are specific to the Cisco Nexus 7009 chassis?

A. The fan tray and fabric cards are unique to the Cisco Nexus 7009. All other components are common across all Cisco Nexus 7000 Series chassis.

Q. What is the switching capacity of fabric cards in the Cisco Nexus 7009?

A. The Cisco Nexus 7009 introduces Nexus 7000 Fabric-2 module, a next-generation fabric module for the Cisco Nexus 7000 Series. With this fabric card, the Cisco Nexus 7009 scales to a switching capacity of 550 Gbps per slot.

Q. How many fabric cards does the Cisco Nexus 7009 support and where are they located?

A. Like the Cisco Nexus 7010 and Nexus 7018 Switches, the Cisco Nexus 7009 chassis supports five fabric cards. With all five fabric cards, the Cisco Nexus 7009 supports 550 Gbps per slot, allowing the switch to scale beyond 8 terabits per second (Tbps).

Unlike in the Cisco Nexus 7010 and Nexus 7018 Switches, in the Cisco Nexus 7009, the fabric cards are located in the front middle of the chassis. This design reduced the depth of the chassis, allowing the chassis to be mounted on both two-post and four-post racks.

Q. Are the Nexus 7000 Fabric-2 modules compatible with existing Cisco Nexus 7000 Series I/O modules?

A. The Nexus 7000 Fabric-2 modules are compatible with all Cisco Nexus 7000 Series I/O modules. I/O modules that can operate at 230 Gbps per slot with Fabric-1 modules will continue to run at the same speed on the chassis with Fabric-2 modules. I/O modules that can operate at 550 Gbps per slot will operate at that speed in chassis with Fabric-2 modules.

Q. Can I have lower- and higher-speed modules in the same chassis?

A. All Cisco Nexus 7000 Series chassis, including the Cisco Nexus 7009, support mixed-speed modules in the same chassis. Each module can operate at the supported speed independent of other modules in the chassis.

Q. How many rack units (RUs) does the Cisco Nexus 7009 Switch consume?

A. The Cisco Nexus 7009 Switch is 14RUs high. This is the same size as the flagship Cisco Catalyst® 6509 Switch, allowing easy transition.

Q. What airflow is supported in the Cisco Nexus 7009 Switch?

A. The Cisco Nexus 7009 uses side-to-side airflow. This design is similar to that of the Cisco Nexus 7018 and is also the airflow used in the Cisco Catalyst 6509 Switch and the Cisco® MDS 9500 Series Multilayer Directors. Cabinet solutions from rack and cabinet vendors can be used to convert the airflow to front-to-back airflow for data center deployments.

Q. Can the Cisco Nexus 7009 be mounted on two-post racks?

A. Yes. The compact design of the Cisco Nexus 7009 allows it to be mounted on both two-post and four-post racks.

Q. How many fan trays does the Cisco Nexus 7009 support and where are they located?

A. The Cisco Nexus 7009 has one tray, located on the left side of the chassis and accessible from the rear of the chassis. The fan tray is fully redundant, with multiple independent fans in each row, redundant controllers, and redundant connectors to the backplane.

Q. How many power supplies does the Cisco Nexus 7009 support and where are they located?

A. The Cisco Nexus 7009 has two power supply slots, both accessible from the rear of the chassis.

Q. Where can I find more information about the Cisco Nexus 7009 Switch?

A. For more information, see the Cisco Nexus 7000 Series homepage.

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