



Dell EMC Networking Z9332F-ON Data Center PowerSwitch Spine Switch

Frequently Asked Questions



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Dell EMC Networking Z9332F-ON FAQ

1. What are the important details of this networking announcement?

- a. *We are announcing the product release of the industry's first Open Networking 400GbE switch – the Dell EMC PowerSwitch Z9332F-ON.*
 - i. *The PowerSwitch Z9332F-ON provides four times the throughput, double the price/performance and double the power efficiency of our previous 100GbE platforms*
 - ii. *The PowerSwitch Z9332F-ON helps organizations meet the need for higher density data center 100GbE IP fabric scalability*
 - iii. *The PowerSwitch Z9332F-ON with multi-rate capabilities provides data centers with a smooth migration path to 400GbE and the flexibility to meet emerging high-performance workloads and server connectivity transitioning to 50GbE and 100GbE uplinks*

2. What models are included in this announcement?

- a. **Z9332F-ON** – 1RU with 32 x 400GbE ports in QSFP56-DD form factor
 - i. 32 ports x 400GbE
 - ii. 64 ports x 200GbE (via breakout)
 - iii. 128 ports x 10/50/100GbE ports (via breakout)

3. What operating systems will the Z9332F-ON Series support?

- a. *The Z9264F-ON will have the option of a factory loaded SmartFabric OS10 software along with the normal 3rd party OS offerings when they become available.*
- b. *Within our ecosystem of 3rd party OS partners, Cumulus Networks is looking to support the Z9332F-ON in Q3. Both Big Switch Networks and SONiC have committed to supporting it in a future release.*

4. What are the key features and benefits of the Z9332F-ON-ON Series?

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Feature	Function	Benefit
<ul style="list-style-type: none"> 32 x 400 or 128 x 10/25/40/50/100GbE with breakout 	High-density 400GbE fabric leaf nodes or 10/25/40/50/100GbE in-rack connections	Offers optimum flexibility and cost-effectiveness for demanding compute and storage traffic environments
Multi-rate 400GbE ports + 2 x 10GbE SFP+ ports	<ul style="list-style-type: none"> 128 x 100GbE 128 x 50GbE 128 x 40GbE 128 x 25GbE 128 x 10GbE + 2 	Future-proof port speed options that can be reconfigured as needed to ease migration
25.6Tbps switching fabric (Full Duplex)	Largest switching I/O bandwidth	Delivers non-blocking, line-rate performance under full traffic load
Native Linux-based SmartFabric OS10	Dell EMC Networking Layer 2 and 3* switching and routing protocols with integrated IP services, Quality of Service, manageability and automation features *No VXLAN Support	Enables customers with a Linux-based data center environment to share management orchestration and automation tools between server and network devices
Open Networking - Supports Open Networking Install Environment (ONIE)	Supports choice of NOS including Dell EMC OS10, Cumulus, Big Switch Networks, and Pluribus Networks	Allows customer the choice of switch hardware, NOS and Linux or open source based applications and tools

5. I heard there might be some silicon restrictions with the Broadcom Tomahawk3?

That is correct. The Broadcom Tomahawk3 has the following limitations:

- It does not support VXLAN VTEPs*
- It has reduced L2 forwarding tables*
- It has reduced ACL capacity*
- It has limited multi-cast bandwidth*

6. So how should I position the Z9332F-ON as compared to the Z9264F-ON?

Z9332F-ON	Z9264F-ON
<ul style="list-style-type: none"> Fixed system for Super Spine layer or End of Row in data center fabrics Good fit in Leaf/Spine architectures as alternative to high-density chassis Usable as 400GbE or 100GbE (with optical breakout) Optionally useable as 100GbE switch with more buffering 50Ghz signaling internal 	<ul style="list-style-type: none"> Fixed system for Leaf or Spine position in data center fabrics (100GbE focused) 64 x 100GbE ports with no breakouts necessary Full L2VXLAN support 25Ghz signaling internal

7. How do I order this solution?

- See the table below for order configurations.*

Product	Description
Z9332F-ON	Z9332F, 32x 400GbE QSFP56-DD, 2x AC PSU, Fan module, I/O Panel to PSU Airflow, OS10 Enterprise Edition Z9332F, 32x 400GbE QSFP56-DD, 2x AC PSU, Fan module, I/O Panel to PSU Airflow, NO-OS Z9332F, 32x 400GbE QSFP56-DD, 2x AC PSU, Fan module, I/O Panel to PSU Airflow, OS10 Enterprise Edition. TAA Certified
Redundant power supplies	AC Power Supply, IO Panel to PSU Airflow AC Power Supply, PSU to IO Panel Airflow DC Power Supply, IO Panel to PSU Airflow (delayed release) DC Power Supply, PSU to IO Panel Airflow (delayed release)
Fans	Fan module, IO Panel to PSU Airflow Fan module, PSU to IO Panel Airflow

8. Where can I learn more about the Z9332F-ON Series?

- a. You can access the following Dell EMC Networking resources on Sales Portal
 - i. Dell EMC Networking Z9332F Spec Sheet
 - ii. Dell EMC Networking Z9332F-ON NDA Customer Presentation
 - iii. Dell EMC Networking Z9332F-ON Battle Card
 - iv. Dell EMC Networking Z9332F-ON Sourcebook
- b. As always you are welcome to reach out to us at ask-networking-plm@dell.com

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