



Dell PowerSwitch S3248T-ON

48-port switch for data center management.

The S3248T-ON offers power-efficient and resilient 1GbE switching solution for advanced Layer 3 distribution with integrated 10GbE SFP+ and 100GbE QSFP28 ports. The S3248T-ON has high-performance capabilities and wire-speed performance utilizing a non-blocking architecture to easily handle unexpected traffic loads. Use dual internal hot-swappable 80PLUS Platinum certified power supplies for high availability and power efficiency.

Modernize network architectures

S3248T-ON supports VRF Lite, allowing it to be partitioned into multiple virtual routers with isolated control and data planes on the same physical switch.

Deploy with confidence at any scale

S3248T-ON helps create performance assurance with a data rate up to 576Gbps (full duplex) and a forwarding rate up to 800Mpps.

Dell's ProSupport Infrastructure Suite is available for enterprise-class support that aligns with the criticality of your systems, the complexity of your environment, and how you allocate your IT resources.

Hardware, performance and efficiency

- 1U switch with 48 line-rate RJ45 1GbE ports, and four integrated 10GbE SFP+ ports.
- Two 100GbE QSFP28 uplink ports.
- Add a second 80PLUS Platinum certified hot swappable internal power supply.
- Variable speed fan operation helps decrease cooling and power costs.
- Energy-efficient Ethernet and lower power PHYs reduce power to inactive ports and idle links, providing energy savings from the power cord to the port.
- Dell Fresh Air compliance for operation in environments up to 113°F (45°C) reduces cooling costs.

Deploying, configuring and managing


- OpenConfig gNMI interface for system management.
- Private VLAN extensions and Private VLAN Edge support.
- AAA authorization, TACACS+ accounting and RADIUS support for comprehensive secure access support.
- Achieve high availability and full bandwidth utilization with MLAG and support firmware upgrades without taking the network offline.
- Layer 3 Advanced IPv4 and IPv6 functionality including BGP, VRF, BFD, PIM-SSM, IGMP, OSPFv2/v3
- VXLAN support



S3248T-ON rear image. PSU to IO airflow displayed.

Product	Description
S3248T-ON	Options, with pre-installed with Enterprise SONiC Distribution by Dell Technologies <ul style="list-style-type: none"> S3248T-ON IO/PS Airflow: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2x 100G QSFP28 ports, 1x 550W AC PSU included S3248T-ON PS/IO Airflow: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2x 100G QSFP28 ports, 1x 550W AC PSU included
Power cords	C13 to NEMA 5-15 C13 to C14
Power supplies (optional)	<ul style="list-style-type: none"> 550W AC hot swappable with IO/PS airflow, adds redundancy to S3248T-ON 550W AC hot swappable with PS/IO airflow, adds redundancy to S3248T-ON 550W DC hot swappable with IO/PS airflow, adds DC power 550W DC hot swappable with PS/IO airflow, adds DC power
Optics, Cables and Cable Management	Please refer to Dell Networking Transceivers and Cables spec sheet for complete list of optics and cables.
Fans (spare)	Fan module, IO to PSU Airflow Fan module, PSU to IO Airflow

Technical specifications

<p>Hardware specifications</p> <p>Physical</p> <p>48 RJ45 ports of 1G, 4 SFP+ ports of 10G and 2 QSFP28 ports of 100G</p> <p>Out-of-band management port (10/100/1000BASE-T)</p> <p>USB (Type A) port for configuration via USB flash drive</p> <p>MicroUSB (Type B) console port (MicroUSB to USB connector cable included)</p> <p>RJ45 console port with RS232 signaling (RJ-45 to female DB-9 connector cable included)</p> <p>Auto-negotiation for speed and flow control</p> <p>Auto-MDI/MDIX, port mirroring</p> <p>Flow-based port mirroring Broadcast storm control</p> <p>Energy-Efficient Ethernet per port settings</p> <p>Redundant variable speed fans</p> <p>Air flow: Normal or Reverse Power supply: 550W 80PLUS. Optional 2nd PSU for redundancy</p> <p>Dual firmware images on-board</p> <p>Switching engine model: Store and forward</p> <p>Chassis</p> <p>Size (1U, H x W x D): 1.71 in x 17.09 in x 15.75 in (43.5 mm x 434 mm x 400 mm). Power supply/ fan tray handle adds 1.18 in</p> <p>Weight: 15.4 lbs (6.99 kg); PSU 1.75 lbs (0.79 kg)—550 W</p> <p>2-post rack mounting kit</p>	<p>Environmental</p> <p>Power supply efficiency: 88% or better in all operating modes</p> <p>Maximum thermal output (BTU/hr): 349.06</p> <p>Power consumption max (watts): 212</p> <p>Operating temperature: 32° to 113°F (0° to 45°C)</p> <p>Operating humidity: 5% to 95% (RH), noncondensing</p> <p>Storage temperature: -40°F to 149°F (-40°C to 70°C)</p> <p>Storage relative humidity: 5% to 95%, noncondensing</p> <p>Performance</p> <p>CPU memory: 16GB DDR4</p> <p>Flash: 32GB SSD</p> <p>Packet buffer memory: 8MB</p> <p>Switch fabric capacity (half duplex): 288Gbps</p> <p>Forwarding rate: 800Mpps</p> <p>Line-rate Layer 2 switching: All (non-blocking)</p> <p>Line-rate Layer 3 routing: All (non-blocking)</p> <p>Number of VLANs per system: 4K</p> <p>Number of VLAN members per system: 4K</p> <p>Number of MAC addresses per system: 8K</p> <p>Network Operating System specifications</p> <p>For Network Operating System (NOS) specific features, refer to Enterprise SONiC Distribution by Dell Technologies spec sheet</p>	<p>Regulatory, environment and other compliance</p> <p>Safety and emissions</p> <p>Australia/New Zealand: ACMA RCA Class A Canada: ICES Class A; cUL</p> <p>China: CCC Class A; NAL Europe: CE Class A Japan: VCCI Class A</p> <p>USA: FCC Class A; NRTL UL; FDA 21 CFR 1040.10 and 1040.11</p> <p>Eurasia Customs Union: EAC Germany: GS mark</p> <p>Product meets EMC and safety standards in many countries inclusive of USA, Canada, EU, Japan, China. For more country-specific regulatory information, and approvals, please see your Dell Technologies representative.</p> <p>Warranty</p> <p>1 year return to depot constrained</p> <p>RoHS</p> <p>Product meets RoHS compliance standards in many countries inclusive of USA, EU, China, and India. For more country-specific RoHS compliance information, please see your Dell Technologies representative.</p> <p>EU WEEE</p> <p>EU Battery Directive REACH</p> <p>Energy</p> <p>Japan: JEL</p> 
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