



## 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.


### 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	<ul style="list-style-type: none"> <li>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</li> <li>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</li> </ul>
Dell SW Configurations	Dell SmartFabric OS10 Enterprise SONiC Distribution by Dell Technologies
Power cords	C13 to NEMA 5-15 C13 to C14
Power supplies (optional)	<ul style="list-style-type: none"> <li>550W AC hot swappable with IO/PS airflow, adds redundancy to S3248T-ON</li> <li>550W AC hot swappable with PS/IO airflow, adds redundancy to S3248T-ON</li> <li>550W DC hot swappable with IO/PS airflow, adds DC power</li> <li>550W DC hot swappable with PS/IO airflow, adds DC power</li> </ul>
Optics, Cables and Cable Management	Please refer to <a href="#">Dell Networking Transceivers and Cables spec sheet</a> for complete list of optics and cables.
Fans (spare)	Fan module, IO to PSU Airflow Fan module, PSU to IO Airflow

Technical specifications		
<p><b>Hardware specifications</b></p> <p><b>Physical</b></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><b>Chassis</b></p> <p>Size (1U, H x W x D): 43.5 x 434 x 400 mm (1.71 x 17.09 x 15.75 inches). Power supply/ fan tray handle adds 30 mm (1.18 inches)</p> <p>Weight: 6.99 kg (15.4 pounds); PSU 0.79 kg (1.75 pounds)—550 W</p> <p>2-post rack mounting kit</p>	<p><b>Environmental</b></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: 0 to 45 °C (32 to 113 °F)</p> <p>Operating humidity: 8% to 90% (RH) noncondensing</p> <p>Storage temperature: -40 to 65 °C (-40 to 149 °F)</p> <p>Storage relative humidity: 5% to 95%, noncondensing</p> <p><b>Performance</b></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) 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><b>Network Operating System specifications</b></p> <p>For Network Operating System (NOS) specific features, refer to <a href="#">Dell SmartFabric OS10</a> and <a href="#">Enterprise SONiC Distribution by Dell Technologies</a> spec sheet</p>	<p><b>Regulatory, environment and other compliance</b></p> <p><b>Safety and emissions</b></p> <p>Australia/New Zealand: ACMA RCA</p> <p>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><b>Warranty</b></p> <p>1 year return to depot constrained</p> <p><b>RoHS</b></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><b>EU WEEE</b></p> <p>EU Battery Directive REACH</p> <p><b>Energy</b></p> <p>Japan: JEL</p> 

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