The S5200-ON 25/100GbE fixed switches comprise Dell EMC’s latest disaggregated hardware and software data center networking solutions, providing state-of-the-art, high-density 25/100GbE ports and a broad range of functionality to meet the growing demands of today’s data center environment. These innovative, next-generation open networking switches offer optimum flexibility and cost-effectiveness for web 2.0, enterprise, mid-market and cloud service provider with demanding compute and storage traffic environments.

The S5200-ON is a complete family of switches: 48-port 25GbE/100GbE ToR switch, 96-port 25GbE/100GbE Middle of Row (MoR)/End of Row (EoR) switch, and a 32-port 100GbE Multi-Rate Spine/Leaf switch. From the traditional 48-port ToR, to the high density S5296F-ON for Middle of Row deployments, the S5200-ON series offers performance and flexibility for a variety of network designs.

In addition to 100GbE Spine/Leaf deployments, the S5232F-ON can also be used in high density deployments using breakout cables to achieve up to 128 10GbE or 128 25GbE ports.

Using industry-leading hardware and a choice of Dell EMC’s OS10 or select 3rd party network operating systems and tools, the S5200-ON switches incorporate multiple architectural features that optimize data center network flexibility, efficiency and availability, including IO panel to PSU or PSU to IO panel airflow for hot/cold aisle environments, redundant, hot-swappable power supplies and fans and deliver non-blocking performance for workloads sensitive to packet loss.

Priority-based flow control (PFC), data center bridge exchange (DCBX) and enhanced transmission selection (ETS) make the S5200-ON family ideally suited for DCB environments.

Dell EMC Networking S5200-ON switches support the open source Open Network Install Environment (ONIE) for zero touch installation of alternate network operating systems.

Key applications
- Organizations looking to enter the software-defined data center era with a choice of networking technologies designed to maximize flexibility
- High-density 10/25GbE ToR server aggregation in high-performance data center environments at the desired fabric speed with the S5248F-ON or S5226F-ON
- Small-scale Fabric implementation via the S5232F-ON switch in leaf and spine along with S5248F-ON 1/10/25GbE ToR switches enabling cost-effective aggregation of 10/25/40/50/100 uplinks
- Multi-functional 10/25/40/50/100GbE switching in High Performance Computing Clusters or other business-sensitive deployments requiring the highest bandwidth
- iSCSI deployments, including DCB converged lossless transactions
- Single-pass VXLAN routing (future software release)

Key features
- 1 or 2RU high-density ToR switches with up to 48 or 96 ports of 25GbE or 32 ports of 100GbE
- Multi-rate 100GbE ports support 10/25/40/50/100GbE
- Scalable L2 and L3 Ethernet switching with QoS and a full complement of standards-based IPv4 and IPv6 features, including OSPF and BGP routing support
- Line-rate performance via non-blocking switch fabrics: 3.2Tbps on S5296F-ON and S5232F-ON, and 2.0Tbps on S5248F-ON
- L2 multipath support via Virtual Link Trunking (VLT) and Routed VLT support
- VXLAN gateway functionality support for bridging and routing the non-virtualized and the virtualized overlay networks with line rate performance (hardware only)
- Support for OS10 Enterprise Edition
- Converged network support for DCB, with priority flow control (802.1Qbb), ETS (802.1Qaz), DCBx and iSCSI TLV support
- Routable RoCE to enable convergence of compute and storage on Leaf/Spine Fabric
- IO panel to PSU airflow or PSU to IO panel airflow Redundant, hot-swappable power supplies and fans on most models
- Supports the open source Open Network Install Environment (ONIE) for zero touch installation of alternate network operating systems
- L2 VXLAN (Static VXLAN with VLT, BGP EVPN)
- Tool-less enterprise ReadyRails™ mounting kits reducing time and resources for switch rack installation
- Power-efficient operation and Dell Fresh Air 2.0 compliant up to 45ºC helps reduce cooling costs in temperature constrained deployments
Key features with Dell EMC Networking OS10

- Consistent DevOps framework across compute, storage and networking elements
- Standard networking features, interfaces and scripting functions for legacy network operations integration
- Standards-based switching hardware abstraction via Switch Abstraction Interface (SAI)
- Pervasive, unrestricted developer environment via Control Plane Services (CPS)
- OS10 Enterprise Edition software enables Dell EMC layer 2 and 3 switching and routing protocols with integrated IP services, quality of service, manageability and automation features

*Roadmap

<table>
<thead>
<tr>
<th></th>
<th>S5248F-ON</th>
<th>S5296F-ON</th>
<th>S5232F-ON</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ports</strong></td>
<td>48xSFP28</td>
<td>96xSFP28</td>
<td>32xGSFP28</td>
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<tr>
<td></td>
<td>2xQSFP28-DD</td>
<td>8xQSFP28</td>
<td>2xSFP+</td>
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<tr>
<td><strong>Max 10GbE density</strong></td>
<td>80</td>
<td>128</td>
<td>128</td>
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<tr>
<td><strong>Max 25GbE density</strong></td>
<td>80</td>
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<td>128</td>
</tr>
<tr>
<td><strong>Max 40GbE density</strong></td>
<td>8</td>
<td>8</td>
<td>32</td>
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<tr>
<td><strong>Max 50GbE density</strong></td>
<td>16</td>
<td>16</td>
<td>64</td>
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<tr>
<td><strong>Max 100GbE density</strong></td>
<td>8</td>
<td>8</td>
<td>32</td>
</tr>
<tr>
<td><strong>Switching capacity</strong></td>
<td>2.0Tbps</td>
<td>3.2Tbps</td>
<td>3.2Tbps</td>
</tr>
<tr>
<td><strong>Throughput</strong></td>
<td>1.5Bpps</td>
<td>2.4Bpps</td>
<td>2.4Bpps</td>
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<tr>
<td><strong>Latency (nano sec)</strong></td>
<td>847</td>
<td>850</td>
<td>877</td>
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<tr>
<td><strong>1588v2 PTP timing (hardware)</strong></td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td><strong>CPU Memory</strong></td>
<td>16GB</td>
<td>16GB</td>
<td>16GB</td>
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<tr>
<td><strong>SSD</strong></td>
<td>64GB</td>
<td>64GB</td>
<td>64GB</td>
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<tr>
<td><strong>Packet Buffer</strong></td>
<td>32MB</td>
<td>32MB</td>
<td>32MB</td>
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<tr>
<td><strong>Maximum power</strong></td>
<td>602W</td>
<td>835W</td>
<td>635W</td>
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<tr>
<td><strong>Typical power</strong></td>
<td>400W</td>
<td>640W</td>
<td>445W</td>
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<tr>
<td><strong>Maximum current</strong></td>
<td>7A@110VAC / 3.5A@220VAC</td>
<td>10A@110VAC / 5A@220VAC</td>
<td>7A@110VAC / 3.5A@220VAC</td>
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<tr>
<td><strong>Fan modules</strong></td>
<td>4</td>
<td>4</td>
<td>4</td>
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<tr>
<td><strong>Form Factor</strong></td>
<td>1RU</td>
<td>2RU</td>
<td>1RU</td>
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<tr>
<td><strong>Dimensions</strong></td>
<td>17.1&quot;Wx19.1&quot;Dx17.1&quot;H</td>
<td>17.4&quot;Wx20.1&quot;Dx3.4&quot;H</td>
<td>17.1&quot;Wx18.1&quot;Dx17.1&quot;H</td>
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<td></td>
<td>43.4Wx46.0Dx4.4H (cm)</td>
<td>44.2Wx51.1Dx8.7H (cm)</td>
<td>43.4Wx46.0Dx4.4H (cm)</td>
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<td><strong>Weight</strong></td>
<td>9.7kg (21.3lbs)</td>
<td>15.1kg (33.2lbs)</td>
<td>9.8kg (21.6lbs)</td>
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<td><strong>Max thermal output</strong></td>
<td>2054 BTU/h</td>
<td>2894 BTU/h</td>
<td>2167 BTU/h</td>
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<td>Product</td>
<td>Description</td>
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<td>---------</td>
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<tr>
<td>S5200-ON</td>
<td>S5248F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition</td>
<td></td>
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<tr>
<td></td>
<td>S5248F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, OS10 Enterprise Edition</td>
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<tr>
<td></td>
<td>S5248F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS</td>
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<td>S5248F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS</td>
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<td>S5248F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition, TAA</td>
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<tr>
<td></td>
<td>S5248F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, OS10 Enterprise Edition, TAA</td>
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<tr>
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<td>S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition</td>
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<tr>
<td></td>
<td>S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, OS10 Enterprise Edition</td>
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<td>S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS</td>
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<td>S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS</td>
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<td>S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition, TAA</td>
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<td>S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, OS10 Enterprise Edition, TAA</td>
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<td></td>
<td>S5232F, 32x QSFP28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition</td>
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<td>S5232F, 32x QSFP28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, OS10 Enterprise Edition</td>
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<td>S5232F, 32x QSFP28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS</td>
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<td>S5232F, 32x QSFP28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS</td>
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<td>S5232F, 32x QSFP28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition, TAA</td>
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<tr>
<td></td>
<td>S5232F, 32x QSFP28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, OS10 Enterprise Edition, TAA</td>
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<td>Redundant power supplies</td>
<td>AC Power Supply, I/O Panel to PSU Airflow, AC Power Supply, PSU to I/O Panel Airflow</td>
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<td>DC Power Supply, I/O Panel to PSU Airflow (available as custom kit), DC Power Supply, PSU to I/O Panel Airflow (available as custom kit)</td>
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<tr>
<td>Fans</td>
<td>Fan module, I/O Panel to PSU Airflow</td>
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<td></td>
<td>Fan module, PSU to I/O Panel Airflow</td>
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<td>Optics</td>
<td>Transceiver, 2x100GbE, 2xSR4, QSFP28-DD</td>
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<td>Transceiver, 2x100GbE, 4xPSM4-IR, QSFP28-DD</td>
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<td>Transceiver, 2x100GbE, 2xCWDM4, QSFP28-DD</td>
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<td>Transceiver, 100GbE, SR4 QSFP28</td>
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<td>Transceiver, 100GbE, PSM4 (500m) QSFP28 Transceiver, 100GbE, CWDM4 (2km) QSFP28 Transceiver, 100GbE, LR4 QSFP28</td>
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<td>Transceiver, 40GbE, SRA optic QSFP+</td>
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<td>Transceiver, 40GbE, BIDI optic QSFP+, (Duplex) Transceiver, 40GbE, SM4 optic QSFP+ (Duplex) Transceiver, 40GbE, LMA optic QSFP+ (Duplex) Transceiver, 40GbE, PSM4 10km, QSFP+</td>
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<td>Transceiver, 40GbE, ER4 optics QSFP+</td>
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<td>Transceiver, 25GbE, SR, NOC SFP28</td>
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<td>Transceiver, 25GbE, LR, SFP28</td>
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<td></td>
<td>Transceiver, 10GbE, SR SFPP, short reach</td>
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<td>Transceiver, 10GbE, LR SFPP, long reach</td>
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<td>Transceiver, 10GbE, ER SFPP, extended reach</td>
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<td>Transceiver, 10GbE, ZR SFPP, extended reach, 10G, 10GBASE-T use with GSA in QSFP+ port, 30m reach on CAT6a/7</td>
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<td></td>
<td>Transceiver, 10GbE, SX SFP</td>
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<td></td>
<td>Transceiver, 10GbE, LX SFP</td>
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<td>Transceiver, 10GbE, ZX SFP</td>
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<td></td>
<td>Transceiver, 10GbE, 1000BASE-T, Gen2, SFP</td>
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</table>
Cables

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
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<tbody>
<tr>
<td>100GbE, 4x25GbE, QSFP28 to 4xSFP28, passive DAC 100GbE, QSFP28 to QSFP28, active optical 100GbE, QSFP28 to QSFP28, passive DAC 100GbE, 2x50GbE, 2xQSFP to 2xQSFP28, passive DAC, breakout 40GbE, QSFP+ to QSFP+, active optical 40GbE, QSFP+ to QSFP+, passive DAC 40GbE, MTP to 4xLC optical breakout 40GbE, 4x10GbE, QSFP+ to 4xSFP+, passive DAC</td>
<td>Z9100 Cable Breakout Kit, MTP to LC (TRU 64-port LC over MMF) Z9100 Cable Breakout Kit, MTP to LC (TRU 64-port LC over SMF)</td>
</tr>
</tbody>
</table>

Technical specifications

**Physical**

- 1R, 45 console/management port with RS232 signaling
- 802.1t  RPVST+
- 802.1w  RSTP
- 802.1s  MSTP
- 802.1Q  VLAN Tagging
- 802.1p  L2 Prioritization
- 802.1D  Compatible
- 802.3x  Flow Control
- 802.3ac  Frame Extensions for VLAN Tagging
- 802.3x  Flow Control
- L2 Prioritization
- VLAN Tagging
- MSTP
- RSTP
- RPVST+

- VLT (Virtual Link Trunking)
- VRRP Active/Active
- RSTP & RPVST+
- Port Mirroring on VLT ports
- DCB, CSCL, FSB on VLT
- RPM/ERPM over VLT
- VLT Minloss upgrade

**RFC Compliance**

- 768  UDP
- 793  TCP
- 854  Telnet
- 959  FTP
- 1321  MD5
- 1350  TFTP
- 2474  Differentiated Services
- 2698 Two Rate Three Color Marker
- 3164  Syslog
- 4264  SSHv2

**General IPv4 Protocols**

- 791  IPv4
- 792  ICMP
- 826  ARP
- 1027  Proxy ARP
- 1035  DNS (client)
- 1042  Ethernet Transmission
- 1191  Path MTU Discovery
- 1305  NTPv4
- 1519  CIDR
- 1812  Routers, Static Routes
- 1858  IP Fragment Filtering
- 2131  DHCv4 (server and relay)
- 5798  VRRPv3
- 3021  31-bit Prefixes
- 1812  Requirements for IPv4 Routers
- 2474  DiffServ Field in IPv4 and IPv6 Headers
- 2597  Assured Forwarding PHB Group
- 3195  Reliable Delivery for Syslog
- 3246  Expedited Forwarding PHB Group
- 4007  IPv6 Scoped Address Architecture
- 4213  Transition Mechanisms for IPv6 Hosts and Routers

**OSPF**

- 1765 OSPF/BGP interaction
- 1785 OSPF Database overflow
- 2154 OSPF with DigitalSignatures
- 2328 OSPFv2
- 5340 OSPF for IPv6 (OSPFv3)
- 2570 12c LSAs
- 3101  OSPF NSSA
- 4552 OSPFv3 Authentication

**Multicast**

- 4544 IGMPv1/2/3 and MLDv1/2 Snooping

**Security**

- 2865 RADIUS
- 3162 Radius and IPv6
- 3579 Radius support for EAP
- 3580 802.1x with RADIUS
- 3826 AES Cipher in SNMP
- 1492 TACACS (Authentication, Accounting, Authorization), Control Plane, VTY & SNMP ACLs

**BGP**

- 1997 Communities
- 2385 MD5
- 2439 Route Flap Damping
- 2795 Route Reflection
- 2918 Route Refresh
- 3065 Configurations
- 4271 BGP-4
- 2546 BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing

**IPv6**

- 2464 Transmission of IPv6 Packets over Ethernet Networks
- 2711 IPv6 Router Alert Option
- 4007 IPv6 Scoped Address Architecture
- 4213 Transition Mechanisms for IPv6 Hosts and Routers
- 3315 4-byte ASN Representation
- 5396 4-byte ASN Representation
- 5492 Capabilities Advertisement
- draft-ietf-idr-add-paths-04.txt ADD PATH

**Network Management and Monitoring**

- 4893 4-byte ASN
- Debian Linux version 9
- Linux Kernel 4.9
- SMB
- IPMI
- SNMPv1/v2c
- IPv4/IPv6 Management support (Telnet, FTP, TACACS, RADIUS, SSH, NTP)
- 2439 Route Flap Damping
- Syslog
- Port Mirroring
- RPM/ERPM
- 3716 SFlow
- Support Assist (Phone Home)
- RestConf APIs (Layer 2 features)
XML Schema
CLI Commit (Scratchpad)
Uplink Failure Detection
Object Tracking
Bidirectional Forwarding Detection (BFD)
Automation
Control Plane Services APIs
Linux Utilities and Scripting Tools
CLI Automation (Multiline Alias)
Zero Touch Deployment (ZTD)
Ansible, Puppet, Chef, SaltStack
8040 RESTCONF APIs (L3)

Quality of Service
Prefix List
Route-Map
Rate Shaping (Egress)
Rate Policing (Ingress)
Scheduling Algorithms
Round Robin
Weighted Round Robin
Deficit Round Robin
Strict Priority
Weighted Random Early Detect

Data center bridging
802.1Qbb Priority-Based Flow Control
802.1Qaz Enhanced Transmission Selection (ETS)
Explicit Congestion Notification
Data Center Bridging eXchange (DCBx)
DCBx Application TLV (iSCSI, FCoE)
RoCEv2
Software Defined Networking
OpenFlow 1.3 (Native)

MIIBS
IP MIB
IP Forward MIB
Host Resources MIB
IF MIB
LLDP EXT/3 MIB
Entity MIB
LAG MIB
Dell-Vendor MIB
TCP MIB
UDP MIB
SNMPv2 MIB
ETHERLIKE-MIB
SFLOW-MIB
PFC-MIB

Regulatory compliance
Safety
UL/CSA 60950-1, Second Edition
EN 60950-1, Second Edition
IEC 60950-1, Second Edition Including All National Deviations and Group Differences
EN 60825-1 Safety of Laser Products Part 1: Equipment Classification Requirements and User’s Guide
FDA Regulation 21 CFR 1040.10 and 1040.11

Emissions
Australia/New Zealand: AS/NZS CISPR 22: 2006, Class A
Canada: ICES-003, Issue-4, Class A
Japan: VCCI V3/2009 Class A
USA: FCC CFR 47 Part 15, Subpart B:2011, Class A

Immunity
EN 301 586 V14.1.2:2008 EMC for Network Equipment
EN 61000-3-2: Harmonic Current Emissions
EN 61000-3-3: Voltage Fluctuations and Flicker
EN 61000-4-2: ESD
EN 61000-4-3: Radiated Immunity
EN 61000-4-4: EFT
EN 61000-4-5: Surge
EN 61000-4-6: Low Frequency Conducted Immunity

RoHS
All S Series components are EU RoHS compliant.

Certifications
Available with US Trade Agreements Act (TAA) compliance
USGv6 Host and Router Certified on Dell Networking OS 9.5 and greater
IPv6 Ready for both Host and Router
UCR DoD APL (core and distribution ALSAN switch

Warranty
1 year return to depot

IT Lifecycle Services for Networking

Experts, insights and ease
Our highly trained experts, with innovative tools and proven processes, help you transform your IT investments into strategic advantages.

Plan & Design
Let us analyze your multivendor environment and deliver a comprehensive report and action plan to build upon the existing network and improve performance.

Deploy & Integrate
Get new wired or wireless network technology installed and configured with ProDeploy. Reduce costs, save time, and get up and running fast.

Educate
Ensure your staff builds the right skills for long-term success. Get certified on Dell EMC Networking technology and learn how to increase performance and optimize infrastructure.

Manage & Support
Gain access to technical experts and quickly resolve multivendor networking challenges with ProSupport. Spend less time resolving network issues and more time innovating.

Optimize
Maximize performance for dynamic IT environments with Dell EMC Optimize. Benefit from in-depth predictive analysis, remote monitoring and a dedicated systems analyst for your network.

Retire
We can help you resell or retire excess hardware while meeting local regulatory guidelines and acting in an environmentally responsible way.

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