The PowerSwitch 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: 12-port, 24-port, and 48-port 25GbE/100GbE ToR switches, 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 compact half-rack width S5212F-ON providing an ideal form factor for hyper-converged deployments, 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 PowerSwitch S5200-ON switches support the open source Open Network Install Environment (ONIE) for zero touch installation of Dell EMC’s OS10 networking operating system, as well as alternative 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 S5296F-ON
- Low-density 10/25GbE server and storage aggregation with the S5212F-ON and S5224F-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 (6.4Tbps full-duplex) on S5296F-ON and S5232F-ON, 2.0Tbps (4.0Tbps full-duplex) on S5248F-ON, and 1.08Tbps (2.16Tbps full-duplex) on S5224F-ON and S5212F-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 for most models reducing time and resources for switch rack installation (S5212F-ON will utilize a tandem tray for mounting)
- Power-efficient operation and Dell Fresh Air 2.0 compliant up to 45°C 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
- Leverage common open source tools and best practices (data models, commit rollbacks*)
- Increase VM Mobility region by stretching L2 VLAN within or across two DCs with unique VLT capabilities
- Scalable L2 and L3 Ethernet Switching with QoS, ACL and a full complement of standards based IPv4 and IPv6 features including OSPF, BGP and PBR
- Enhanced mirroring capabilities including local mirroring, Remote Port Mirroring (RPM), and Encapsulated Remote Port Mirroring (ERPM)
- Converged network support for Data Center Bridging, with priority flow control (802.1Qbb), ETS (802.1Qaz), DCBx and iSCSI TLV

### Features Comparison

<table>
<thead>
<tr>
<th>Features</th>
<th>S5212F-ON</th>
<th>S5224F-ON</th>
<th>S5248F-ON</th>
<th>S5296F-ON</th>
<th>S5232F-ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ports</td>
<td>12xSFP28</td>
<td>24xSFP28</td>
<td>48xSFP28</td>
<td>96xSFP28</td>
<td>32xQSFP28</td>
</tr>
<tr>
<td></td>
<td>3xQSFP28</td>
<td>4xQSFP28</td>
<td>4xQSFP28-DD</td>
<td>8xQSFP28</td>
<td>2xSFP+</td>
</tr>
<tr>
<td>Max 10GbE density</td>
<td>24</td>
<td>40</td>
<td>80</td>
<td>128</td>
<td>126</td>
</tr>
<tr>
<td>Max 25GbE density</td>
<td>24</td>
<td>40</td>
<td>80</td>
<td>128</td>
<td>124</td>
</tr>
<tr>
<td>Max 40GbE density</td>
<td>3</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>32</td>
</tr>
<tr>
<td>Max 50GbE density</td>
<td>6</td>
<td>8</td>
<td>16</td>
<td>16</td>
<td>64</td>
</tr>
<tr>
<td>Max 100GbE density</td>
<td>3</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>32</td>
</tr>
<tr>
<td>Switching capacity</td>
<td>1.08Tbps (2.16Tbps full-duplex)</td>
<td>1.08Tbps (2.16Tbps full-duplex)</td>
<td>2.0Tbps (4.0Tbps full-duplex)</td>
<td>3.2Tbps (6.4Tbps full-duplex)</td>
<td>3.2Tbps (6.4Tbps full-duplex)</td>
</tr>
<tr>
<td>Throughput</td>
<td>892Mpps</td>
<td>1488Mpps</td>
<td>1.5Bpps</td>
<td>2.4Bpps</td>
<td>2.4Bpps</td>
</tr>
</tbody>
</table>

*Roadmap*
## Features

<table>
<thead>
<tr>
<th>Features</th>
<th>S5212F-ON</th>
<th>S5224F-ON</th>
<th>S5248F-ON</th>
<th>S5296F-ON</th>
<th>S5232F-ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latency (nano sec)</td>
<td>906</td>
<td>881</td>
<td>847</td>
<td>850</td>
<td>877</td>
</tr>
<tr>
<td>1588v2 PTP timing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(hardware)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPU Memory</td>
<td>8GB</td>
<td>16GB</td>
<td>16GB</td>
<td>16GB</td>
<td>16GB</td>
</tr>
<tr>
<td>SSD</td>
<td>16GB</td>
<td>32GB</td>
<td>64GB</td>
<td>64GB</td>
<td>64GB</td>
</tr>
<tr>
<td>Packet Buffer</td>
<td>32MB</td>
<td>32MB</td>
<td>32MB</td>
<td>32MB</td>
<td>32MB</td>
</tr>
<tr>
<td>Maximum power</td>
<td>304W</td>
<td>200W</td>
<td>310W</td>
<td>457W</td>
<td>360W</td>
</tr>
<tr>
<td>Typical power</td>
<td>140W</td>
<td>200W</td>
<td>310W</td>
<td>457W</td>
<td>360W</td>
</tr>
<tr>
<td>Maximum current</td>
<td>2.8A@110VAC / 1.4A@220VAC</td>
<td>4.2A@110VAC / 2.1A@220VAC</td>
<td>5.8A@110VAC / 2.9A@220VAC</td>
<td>8.2A@110VAC / 4.1A@220VAC</td>
<td>5.8A@110VAC / 2.9A@220VAC</td>
</tr>
<tr>
<td>Fan modules</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Form Factor</td>
<td>1RU (half-width)</td>
<td>1RU</td>
<td>1RU</td>
<td>1RU</td>
<td>1RU</td>
</tr>
<tr>
<td>Dimensions</td>
<td>8.2&quot;Wx19.3&quot;D x1.6&quot;H x20.9Wx49.0D x4.1H (cm)</td>
<td>17.1&quot;Wx18.1&quot;D x1.7&quot;H x43.4Wx46.0D x4.4H (cm)</td>
<td>17.1&quot;Wx18.1&quot;D x1.7&quot;H x43.4Wx46.0D x4.4H (cm)</td>
<td>17.4&quot;Wx20.1&quot;D x3.4&quot;H x44.2Wx51.1D x8.7H (cm)</td>
<td>17.1&quot;Wx18.1&quot;D x1.7&quot;H x43.4Wx46.0D x4.4H (cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>4.5kg (10.05lbs)</td>
<td>9.7kg (21.4lbs)</td>
<td>9.7kg (21.4lbs)</td>
<td>15.1kg (33.2lbs)</td>
<td>9.8kg (21.6lbs)</td>
</tr>
<tr>
<td>Max thermal output</td>
<td>1037 BTU/h</td>
<td>1552 BTU/h</td>
<td>2208 BTU/h</td>
<td>3047 BTU/h</td>
<td>2167 BTU/h</td>
</tr>
</tbody>
</table>

## Product Description

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, OS10 Enterprise Edition</td>
<td></td>
</tr>
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<tr>
<td>S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x DC PSU, I/O Panel to PSU Airflow, OS10 Enterprise Edition</td>
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</tr>
<tr>
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</tr>
<tr>
<td>S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, NO-OS</td>
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<tr>
<td>S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, OS10 Enterprise Edition, TAA</td>
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<td>S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, PSU to I/O Panel Airflow, OS10 Enterprise Edition, TAA</td>
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<tr>
<td>S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition</td>
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<tr>
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<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>S5248F, 48x 25GbE SFP28 + 2x 100GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition</td>
<td></td>
</tr>
<tr>
<td>S5248F, 48x 25GbE SFP28 + 2x 100GbE 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>
<tr>
<td>S5248F, 48x 25GbE SFP28 + 2x 100GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS</td>
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</tr>
<tr>
<td>S5248F, 48x 25GbE SFP28 + 2x 100GbE 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 100GbE 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>S5248F, 48x 25GbE SFP28 + 2x 100GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, OS10 Enterprise Edition, TAA</td>
<td></td>
</tr>
</tbody>
</table>
## Product Description

### S5296F
- **Description**: 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition
- **Additional Options**: - NO-OS
- **Model Variants**: S5296F, S5296F, S5296F, S5296F

### S5296F with AC Power Supplies
- **Description**: 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition
- **Additional Options**: - NO-OS
- **Model Variants**: S5296F, S5296F, S5296F, S5296F

### S5232F
- **Description**: 32x QSFP28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, OS10 Enterprise Edition
- **Additional Options**: - NO-OS
- **Model Variants**: S5232F, S5232F, S5232F, S5232F

### Redundant power supplies
- **Description**: AC Power Supply, IO Panel to PSU Airflow AC Power Supply, PSU to I/O Panel Airflow
- **Additional Options**: DC Power Supply, PSU to I/O Panel Airflow (available as custom kit) DC Power Supply, PSU to I/O Panel Airflow (available as custom kit)

### Fans
- **Description**: Fan module, I/O Panel to PSU Airflow Fan module, PSU to IO Panel Airflow

### Optics
- **Description**: Transceiver, 2x100GbE, 2xSFP, QSFP28-DD
- **Additional Options**: Transceiver, 2x100GbE, 2xSFP, QSFP28-DD
- **Model Variants**: Transceiver, 2x100GbE, 2xSFP, QSFP28-DD

### Cables
- **Description**: 100GbE, 4x25GbE, QSFP28 to 4xSFP, passive DAC 100GbE, QSFP28 to QSFP28, active optical 100GbE, QSFP28 to QSFP28, passive DAC
- **Additional Options**: 100GbE, 2x50GbE, 2xQSFP to 2xQSFP, 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

### Cable management
- **Description**: Z9100 Cable Breakout Kit, MTP to LC (1RU 64-port LC over MMF) Z9100 Cable Breakout Kit, MTP to LC (1RU 64-port LC over SMF)
Technical specifications

Physical
1 RJ45 console/management port with RS232 signaling
SS212F-ON: 12x25GbE SFP28 + 3x 100GbE QSFP28
SS224F-ON: 24x25GbE SFP28 + 4x 100GbE QSFP28
SS248F-ON: 48x25GbE SFP28 + 4x 100GbE QSFP28 + 2x 2x100GbE QSFP28-DD
SS296F-ON: 96x25GbE SFP28 + 8x 100GbE QSFP28
SS3232F-ON: 32x100GbE QSFP28 ports + 2xSFP+ 10GbE

Environmental
Power supply: 100–240 VAC 50/60 Hz
Max Operating specifications:
AC Max. Operating specifications:
Operating temperature: 32° to 113°F (0° to 45°C)
Operating humidity: 5% to 90% (RH), non-condensing
Max. Non-operating specifications:
Storage temperature: -40° to 158°F (-40° to 70°C)
Storage humidity: 5% to 90% (RH), non-condensing
Fresh air Compliant to 45°C

Redundancy
Hot swappable redundant power
Hot swappable redundant fans (fixed power supply and fans on SS212F-ON)

Performance
Packet buffer memory: 32MB
CPU memory: 16GB
MAC addresses: 294k (in Scaled L2 switch mode)
ARP table: 278k (in Scaled L3 hosts mode)
IPv4 routes: 389k (in Scaled L3 routes mode)
IPv6 routes: 194k (in Scaled L3 routes mode)
Multicast hosts: 32k
Link aggregation: 16 links per group, 128 groups
Layer 2 VLANs: 4K
MSTP: 64 instances
LAG load balancing: Based on layer 2, IPv4 or IPv6 headers

IEEE Compliance
802.1AB LLDP
TIA-1057 LLDP-MED
802.3ad Link Aggregation
802.1D Bridging, STP
802.1p L2 Prioritization
802.1Q VLAN Tagging
802.1Qb PCF
802.1Qaz ETS
802.1X Network Access Control
802.3ac Frame Extensions for VLAN Tagging
802.3x Flow Control
Layer2 Protocols
802.1p L2 Prioritization
802.1Q VLAN Tagging
802.1s MSTP
802.1w RSTP
802.1t RPVST+
802.1Q VLAN Tagging
802.1s OSPF
802.1w OSPF
802.1t OSPF
VLT (Virtual Link Trunking)
VRRP Active/Active
RSTP & RPVST+
Port Mirroring on VLT ports

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
4234 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 DHCPv4 (server and relay)
5798 VRRPv3
3021 31-bit Prefixes
1812 Requirements for IPv4 Routers
1918 Address Allocation for Private Internets
2474 DiffServ Field in IPv4 and IPv6 Headers
2597 Assured Forwarding PHB Group
3195 Reliable Delivery for Syslog
3246 Expedited Forwarding PHB Group
VRF (BGPv4/v6)

General IPv6 Protocols
1981 Path MTU for IPv6
2372 IPv6 Addressing
2460 IPv6 Protocol Specification
2461 Neighbor Discovery
2462 Stateless Address AutoConfig
2711 IPv6 Router alert
2463 ICMPv6
2464 Ethernet Transmission
2675 IPv6 Jumbograms
3484 Default Address Selection
3493 Basic Socket Interface
4291 Addressing Architecture
3542 Advanced Sockets API
3587 Global Unicast Address Format
4291 IPv6 Addressing
2464 Transmission of IPv6 Packets over Ethernet Networks
2711 IPv6 Router Alert Option
IPv6 Scoped Address Architecture
2421 Transition Mechanisms for IPv6 Hosts and Routers
2464 DHCPv6 Server & Relay
3007 Static Routes

BGP
1997 Communities
2385 MD5
2439 Route Flap Damping
2796 Route Reflection
2918 Route Refresh
3065 Confederations
4271 BGP-4
2545 BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing
2685 Multiprotocol Extensions
4360 Extended Communities
4893 4-byte ASN
5396 4-byte ASN Representation
5492 Capabilities Advertisement
draft-ietf-idr-add-paths-04.txt ADD PATH

Linux Distribution
Debian Linux version 9
Linux Kernel 4.9

Network Management and Monitoring
SNMPv1/2c
IPv4/IPv6 Management support (Telnet, FTP, TACACS, RADIUS, SSH, NTP)
Syslog
Port Mirroring
RPM/ERPM
3176 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

DCB, iSCSI, FSB on VLT
RPM/ERPM over VLT
VLT Minloss upgrade

Security
2865 5486 RADIUS
3162 Radius and IPv6
3579 Radius support for EAP
3580 802.1x with RADIUS
3826 AES Cipher in SNMP
1492 TACACS (Authentication, Accounting)
Control Plane, VTY & SNMP ACLs
IP Access Control Lists

Multicast
4541 IGMPv1/v2/v3 and MLDv1/v2 Snooping

5 Dell EMC PowerSwitch S5200-ON Series Switches
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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)

MIBS
IP MIB
IP Forward MIB
Host Resources MIB
IF MIB
LLDP EXT1/3 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
EN 60825-2 Safety of Laser Products Part 2:
Safety of Optical Fibre Communication
Systems
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
(CISPR 22: 2006), Class A
Japan: VCCI V3/2009 Class A
USA: FCC CFR 47 Part 15, Subpart B:2011,
Class A

Immunity
EN 300 386 V1.4.1:2008 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
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Experts, insights and ease
Our highly trained experts, with innovative tools and proven processes, help you transform your IT investments into strategic advantages.

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

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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.

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

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