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S5200 SPEC SHEET





DELL EMC POWERSWITCH S5200-ON SERIES SWITCHES

High-performance, open networking 25GbE top-of-rack and 100GbE spine/leaf switches

The PowerSwitch S5200-ON 25/100GbE fixed switches comprise Dell Technologies' latest disaggregated hardware and software data center networking solutions, providing state-of-the-art, highdensity 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 SmartFabric 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 SmartFabric 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 highperformance 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

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
- Support for Dell EMC SmartFabric OS10
- 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
- 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 SmartFabric 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)
- Dell EMC SmartFabric OS10 software enables Dell EMC layer 2 and 3 switching and routing protocols with integrated IP services, quality of service, manageability and automation features
- OS10 supports Precision Time Protocol (PTP, IEEE 1588v2) to synchronize clocks on network devices
- 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
- BGP EVPN with Integrated Routing and Bridging (IRB) in both Asymmetric and Symmetric modes, enabling controller less NVO

Features	S5212F-ON	S5224F-ON	S5248F-ON	S5296F-ON	S5232F-ON
Ports	12xSFP28 3xQSFP28	24xSFP28 4xQSFP28	48xSFP28 2xQSFP28-DD 4xQSFP28	96xSFP28 8xQSFP28	32xQSFP28 2xSFP+
Max 10GbE density	24	40	80	128	126
Max 25GbE density	24	40	80	128	124
Max 40GbE density	3	4	8	8	32
Max 50GbE density	6	8	16	16	64
Max 100GbE density	3	4	8	8	32
Switching capacity	1.08 Tbps (2.16 Tbps full duplex)	1.08 Tbps (2.16 Tbps full duplex)	2.0 Tbps (4.0 Tbps full duplex)	3.2 Tbps (6.4 Tbps full duplex)	3.2 Tbps (6.4 Tbps full duplex)
Throughput	892 Mpps	954 Mpps	1.9 Bpps	1.5 Bpps	1.5 Bpps

Features	S5212F-ON	S5224F-ON	S5248F-ON	S5296F-ON	S5232F-ON
Latency (nano sec)	906	881	847	850	877
1588v2 PTP timing (hardware)		•	•	•	•
CPU Memory	8GB	16GB	16GB	16GB	16GB
SSD	16GB	32GB	64GB	64GB	64GB
Packet Buffer	32MB	32MB	32MB	32MB	32MB
Maximum power	304W	455W	647W	893W	635W
Typical power	140W	200W	310W	457W	360W
Maximum current	2.8A@110VAC / 1.4A@220VAC	4.2A@110VAC / 2.1A@220VAC	5.8A@110VAC / 2.9A@220VAC	8.2A@110VAC / 4.1A@220VAC	5.8A@110VAC / 2.9A@220VAC
Fan modules	Fixed	4	4	4	4
Form Factor	1RU (half-width)	1RU	1RU	2RU	1RU
Dimensions	8.2"Wx19.3"D x1.6"H 20.9Wx49.0D x4.1H (cm)	17.1"Wx18.1"D x1.7"H 43.4Wx46.0D x4.4H (cm)	17.1"Wx18.1"D x1.7"H 43.4Wx46.0D x4.4H (cm)	17.4"Wx20.1"D x3.4"H 44.2Wx51.1D x8.7H (cm)	17.1"Wx18.1"D x1.7"H 43.4Wx46.0D x4.4H (cm)
Weight	4.5kg (10.05lbs)	9.7kg (21.4lbs)	9.7kg (21.4lbs)	15.1kg (33.2lbs)	9.8kg (21.6lbs)
Max thermal output	1037 BTU/h	1552 BTU/h	2208 BTU/h	3047 BTU/h	2167 BTU/h

Product	Description
S5200-ON	 S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x DC PSU, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, NO-OS S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, NO-OS S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, NO-OS S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, NO-OS S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10, TAA S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10, TAA S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel Airflow, Dell EMC SmartFabric OS10 S5248F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel Airflow, Dell EMC SmartFa

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Product	Description
S5200-ON	S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10, TAA S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10, TAA S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10, TAA S52932F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS
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 (available as custom kit) DC Power Supply, PSU to IO Panel Airflow (available as custom kit)
Fans	Fan module, IO Panel to PSU Airflow Fan module, PSU to IO Panel Airflow
Optics	Transceiver, 2x100GbE, 2xSR4, QSFP28-DD Transceiver, 2x100GbE, 2xPSM4-IR, QSFP28-DD Transceiver, 100GbE, SR4 QSFP28 Transceiver, 100GbE, PSM4 (500m) QSFP28 Transceiver, 100GbE, CWDM4 (2Km) QSFP28 Transceiver, 100GbE, LR4 QSFP28 Transceiver, 40GbE, SR4 optic QSFP+ Transceiver, 40GbE, BIDI optic QSFP+ Transceiver, 40GbE, BIDI optic QSFP+ (Duplex) Transceiver, 40GbE, BIDI optic QSFP+ (Duplex) Transceiver, 40GbE, LM4 optic QSFP+ Transceiver, 40GbE, LM4 optic QSFP+ Transceiver, 40GbE, LR4 optic QSFP+ Transceiver, 40GbE, LR4 optic QSFP+ Transceiver, 40GbE, LR4 optic QSFP+ Transceiver, 40GbE, LR4 optic QSFP+ Transceiver, 25GbE, SR, NOF SFP28 Transceiver, 10GbE, SR SFP+, short reach Transceiver, 10GbE, SR SFP+, short reach Transceiver, 10GbE, ZR SFP+, extended reach 10G, Transceiver, 10GbE, ZR SFP+ extra extended reach 10G, Transceiver, 10GbE, ZR SFP+ Transceiver, 10GbE, ZR SFP+ Transceiver, 10GbE, ZR SFP Transceiver, 10GE, 2R SFP
Cables	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
Cable management	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 RS2	232
signaling S5212F-ON: 12x25GbE SFP28 + 3x 100G	bE
QSFP28 S5224F-ON: 24x25GbE SFP28 + 4x 100G QSFP28	bE
QSFP28 + 2x 2x100GbE SFP28 + 4x 100G QSFP28 + 2x 2x100GbE QSFP28-DD S5296F-ON: 96x25GbE SFP28 + 8x 100G QSFP28	
S5232F-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 S5212F-ON)	-
Performance Packet buffer memory: 32MB CPU memory: 16GB MSTP: 64 instances LAG load balancing: Based on layer 2, IPv4 IPv6 headers	lor
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 802.1Qbb PFC 802.1Qaz ETS 802.1X Network Access Control 802.3ac Frame Extensions for VLAN Tagging	
802.3xFlow ControlLayer2Protocols802.1DCompatible802.1SMSTP802.1wRSTP802.1tRPVST+VLT (Virtual Link Trunking)VRRP Active/ActiveRSTP & RPVST+Port Mirroring on VLT portsDCB, ISCSI, FIP Snooping BridgeRPM/ERPM over VLTVLT Minloss upgrade RFC Compliance 768UDP793TCP854Telnet959FTP	

1350 2474 2698 3164 4254	TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2
General I	Pv4 Protocols
791	IPv4
792	ICMP
826	ARP
1027 1035	Proxy ARP DNS (client)
1042	Ethernet Transmission
1191	Path MTU Discovery
1305	NTPv4
1519	CIDR
1588v2 1812	PTP support 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 VRF (BG	Expedited Forwarding PHB Group
General I 1981	Pv6 Protocols Path MTU for IPv6
2372	IPv6 Addressing
2460	IPv6 Protocol Specification
2461	Neighbor Discovery
2462	Stateless Address AutoConfig
2711	IPv6 Router alert ICMPv6
2463 2464	Ethernet Transmission
2675	IPv6 Jumbograms
3484	Default Address Selection
3493	Basic Socket Interface
4291	Addressing Architecture Advanced Sockets API
3542 3587	Global Unicast Address Format
4291	IPv6 Addressing
2464	Transmission of IPv6 Packets over
	Ethernet Networks
2711	IPv6 Router Alert Option
4007 4213	IPv6 Scoped Address Architecture Transition Mechanisms for IPv6 Hosts
and Rout	
3315	DHCPv6 Server & Relay
IPv6	Static Routes
OSPF	
1745	OSPF/BGP interaction
1765 2154	OSPF Database overflow OSPF with DigitalSignatures
2328	OSPFv2
5340	OSPF for IPv6 (OSPFv3)
2370	Opaque LSA
3101	OSPF NSSA
4552	OSPFv3 Authentication
Multicast 4541	t IGMPv1/v2/v3 and MLDv1/v2
+041	Snooping
Security	
2865	RADIUS
3162	Radius and IPv6

3579 Radius support for EAP 3580 802.1X with RADIUS 3826 AES Cipher in SNMP TACACS (Authentication, Accounting) 1492 Control Plane, VTY & SNMP ACLs IP Access Control Lists 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 2858 Multiprotocol Extensions 4360 Extended Communities 4893 4-byte ASN 5396 4-byte ASN Representation Capabilities Advertisement 5492 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 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)

Software Defined Networking

OpenFlow 1.3 (Native)

RoCEv2



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

Safety			
UL/CSA 60950-1, Second Edition			
EN 60950-1, Second Edition			
IEC 60950-1, Seco	nd 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	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		
Europe: EN 55022:			
(CISPR 22: 2006			
Japan: VCCI V3/2009 Class A			
	Part 15, Subpart B:2011,		
Class A			
Immunity			
	2008 EMC for Network		
Equipment			
EN 55024:	1998 + A1: 2001 + A2: 2003		
EN 61000-3-2:	Harmonic Current		
21101000002.	Emissions		
EN 61000-3-3:	Voltage Fluctuations and		
21101000000	Flicker		
EN 61000-4-2:	ESD		
EN 61000-4-3:	Radiated Immunity		
EN 61000-4-4:	FFT		
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



Plan, deploy, manage and support your IT transformation with our top-rated services

Consulting

Dell Technologies Consulting Services provides industry professionals with a wide range of tools and the experience your need to design and execute plans to transform your business.

Deployment

Accelerate technology adoption with ProDeploy Enterprise Suite. Trust our experts to lead deployments through planning, configuration and complex integrations.

Management

Regain control of operations with flexible IT management options. Our Residency Services help you adopt and optimize new technologies and our Managed Services allow you to outsource portions of your environment to us.

Support

Increase productivity and reduce downtime with ProSupport Enterprise Suite. Expert support backed by proactive and predictive artificial intelligence tools.

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