DCLTechnologies

S4200 SPEC SHEET



DELL EMC POWERSWITCH S4200-ON

10/40/100 GbE top-of-rack multi-function open networking switch

The Dell EMC PowerSwitch S4200-ON switch is Dell Technologies' latest disaggregated hardware and software data center networking solution, providing a broad range of functionality to meet the growing demands of today's data center environment. The S4200 is a performance-optimized open networking switch that provides deep buffering capability and enhanced hardware table capacities for internet routing or high density flow tables for software defined networking applications.

Using industry-leading hardware and a choice of leading network operating systems and tools, the S4200-ON delivers non-blocking performance for High Performance Computing (HPC), big data and other workloads sensitive to packet loss. It also provides optimum bandwidth for demanding environments with support for 10/40/100GE ports for top of rack deployment in data centers.

Based on configuration options, the S4200-ON can be a full-functioned data center switch, low-cost WAN switch for internet routing, or scalable 10GbE SDN switch for access and aggregation layers of a SDN data center fabric. The Dell EMC PowerSwitch S4200-ON supports the open source Open Network Install Environment (ONIE) for zero touch installation of alternate network operating systems.

Key applications

- Organizations Organizations looking to enter the softwaredefined data center era with a choice of networking technologies designed to deliver the flexibility they need
- Multi-functional 10/40/100 GbE switching/routing in HPC clusters, big data clusters, Hadoop clusters, video distribution networks, storage networks or other business-sensitive deployments that require the highest performance
- High-density 10GbE ToR server aggregation in loss sensitive data center (DC) environments
- Innovative cloud providers, financial companies and Web 2.0 companies
- Deep tables for handling of full Internet routes and scalable SDN flow rules for enterprise data centers
- SaaS providers and carriers looking for best-of-breed SDN solutions

Key features

- 1RU high-density 10/40/100 GbE ToR switch with forty ports of 10GbE (SFP+), two ports of 40 GbE (QSFP+), and six ports of 100GbE (QSFP28)
- There are two variants of S4200-ON: S4248FB-ON: with deep-buffering only S4248FBL-ON: with deep-buffering and additional
- · TCAM for expanded FIB and ACL tables and flows
- Multi-rate 100GbE ports support 10/25/40/50GbE; 40GbE ports support 10GbE; 10GbE ports support 1GbE
- · 800Gbps (half-duplex)/1.6Tbps (full-duplex) switching fabric
- · Deep buffering capability of up to 6GB packet buffering
- Supports virtual output queue (VoQ) architecture and deep packet
 buffering to eliminate head of line blocking
- · Supports up to 2 million IPv4 route entries
- · OpenFlow controllers
- · IO panel to PSU airflow or PSU to IO panel airflow
- Supports the open source Open Network Install Environment (ONIE) for zero touch installation of alternate network operating systems
- · Redundant, hot-swappable power supplies and fans

Key features with Dell 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)
- Open and programmatic management interface via Common Management Services (CMS)
- Dell EMC SmartFabric OS10 software enables Dell Technologies'

Layer 2 and 3 switching and routing protocols with integrated IP services, quality of service, manageability and automation features

- Platform agnostic via standard hardware abstraction layer (OCPSAI)
- Unmodified Linux kernel and unmodified Linux distribution
- 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

	S4248FB-ON	S4248FBL-ON
Buffer	6GB	6GB
CPU memory	8GB DDR3	32GB DDR3
SSD	16GB mSATA	64GB mSATA

Product	Description
S4200-ON	 S4248FB, 40x 10GbE SFP+, 2x QSFP+, 6x 100GbE QSFP28, 2x AC PSU, 5x fan modules, I/O Panel to PSU Airflow S4248FB, 40x 10GbE SFP+, 2x QSFP+, 6x 100GbE QSFP28, 2x AC PSU, 5x fan modules, PSU to I/O Panel Airflow S4248FBL, 40x 10GbE SFP+, 2x QSFP+, 6x 100GbE QSFP28, 2x AC PSU, 5x fan modules, I/O Panel to PSU Airflow S4248FBL, 40x 10GbE SFP+, 2x QSFP+, 6x 100GbE QSFP28, 2x AC PSU, 5x fan modules, I/O Panel to PSU Airflow S4248FBL, 40x 10GbE SFP+, 2x QSFP+, 6x 100GbE QSFP28, 2x AC PSU, 5x fan modules, I/O Panel to PSU Airflow
Redundant power supplies	S4200, AC Power Supply, IO Panel to PSU Airflow S4200, AC Power Supply, PSU to IO Panel Airflow S4248, DC Power Supply, I/O Panel to PSU Airflow S4248, DC Power Supply, PSU to I/O Panel Airflow
Fans	S4200 fan module, IO Panel to PSU Airflow S4200 fan module, PSU to IO Panel Airflow
Optics	Transceiver, 100GbE, SR4 QSFP28 Transceiver, 100GbE, LR4 QSFP28 Transceiver, 100GbE, LR4Lite QSFP28 Transceiver, 100GbE, CWDM4 2Km QSFP28 (*) Transceiver, 100GbE, PSM4 500m QSFP28 (*) Transceiver, 40GbE, SR4 optic QSFP+ Transceiver, 40GbE, eSR4 optic QSFP+ Transceiver, 40GbE, LR4 optic QSFP+ Transceiver, 40GbE, ER4 optics QSFP+ Transceiver, 40GbE, FM4 10Km, QSFP+ Transceiver, 40GbE, PSM4 10Km, QSFP+ Transceiver, 40GbE, PSM4-LR MPO 10Km QSFP+ to LC Transceiver, 40GbE, LM4 / SM4 Duplex QSFP+ Transceiver, 40GbE, SR SFP+, short reach Transceiver, 10GbE, SR SFP+, short reach Transceiver, 10GbE, LR SFP+, extended reach Transceiver, 10GbE, ZR SFP+ extra extended reach
Cables	100GbE, 4x25GbE, QSFP28 to 4xSFP28, passive DAC 100GbE, QSFP28 to QSFP28, active optical 100GbE, QSFP28 to QSFP28, passive DAC 100GbE, 2x50GbE, QSFP28 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

Technical specifications

Physical	
40 10 Gigabit Ethernet SFP+ ports	
2 40 Gigabit Ethernet QSFP+ ports	
6 100 Gigabit Ethernet QSFP28 ports	
1 RJ45 console/management port with RS232	
signaling	
Size: 1 RU, 1.72 h x 17.1 w x 18.2" d (4.4 h x 43.4	WХ
46.2 cm d)	
Weight: 22 lbs (9.98 kg)	
ISO 7779 A-weighted sound pressure level:	
59.6 dBA at 73.4°F (23°C)	
Power supply: 100–240 VAC 50/60 Hz	
DC power supply: -36V to -72V	
Max. thermal output: 2047 BTU/h	
Thermal dissipation: 1433 BTU/hr (S4248FB-O	N):
1604 BTU/hr (S4248FBL-ON)),
Max. current draw per system:	
6A/5A at 100/120V AC 3A/2.5A at 200/240	V
AC	•
Typical power consumption (S4248FB-ON): 150	
Max power consumption (S4248FB-ON): 420V	
Typical power consumption (S4248FBL-ON): 18	
Max power consumption (S4248FBL-ON): 470	
Max. operating specifications:	vv
Operating temperature: 32° to 104°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 95% (RH),	
non-condensing	
Redundancy	
Hot swappable redundant power	
Hot swappable redundant fans	
Performance	
Switch fabric capacity:	
1.6Tbps (full-duplex)	
800Gbps (half-duplex)	
Forwarding capacity: 720 Mpps	
Packet buffer memory: 6GB	
CPU memory:	
S4248FB-ON: 8GB	
S4248FBL-ON: 32GB	
Link aggregation: 32 links per group, 128 groups	;
Layer 2 VLANs: 4K	
MSTP: 64 instances	
LAG load balancing: Based on layer 2, IPv4 or	
IPv6 headers	

	S4248FB-ON	S4248FBL-ON
MAC scale	750K	750K
IPv4 hosts	96K	96K
PVST instance	128	128
Ingress ACL	8192	8192
Egress ACL	2048	2048
L3 VLAN	500	500
IPv4 routes	130K	2 Million
IPv6 routes	64K	400K

IEEE Compliance

	npliance
802. 1AB	LLDP
TIA-1057	LLDP-MED
802.1s	MSTP
802.1w	RSTP
802.3ab	Gigabit Ethernet (1000Base-T)
802.3ad	Link Aggregation with LACP
802.3ae	10 Gigabit Ethernet (10GBase-X)
802.3ba	40 Gigabit Ethernet (40GBase-X)
802.3i	Ethernet (10Base-T)
802.3u	Fast Ethernet (100Base-TX)
802.3z	Gigabit Ethernet (1000BaseX)
802.1D	Bridging, STP
802.1p	L2 Prioritization
802.1Q	VLAN Tagging, GVRP
802.1Qbb	PFC
802.1Qaz	ETS
802.1X	Network Access Control
802.3ab	Gigabit Ethernet (1000BASE-T)
	or breakout
802.3ac	Frame Extensions for VLAN Tagging
802.3ad	Link Aggregation with LACP
802.3ae	10 Gigabit Ethernet (10GBase-X)
802.3ba	40 Gigabit Ethernet (40GBase-
002.000	SR4, 40GBase-CR4, 40GBase-LR4,
	100GBase-SR10, 100GBase-LR4,
	100GBase-ER4) on optical ports
802.3bj	100 Gigabit Ethernet
802.3u	Fast Ethernet (100Base-TX) on mgmt
002.Ju	
000 70	ports
802.3x	Flow Control Gigabit Ethernet (1000Base-X) with
802.3z	
	QSA ANSI/TIA-1057
LLDP-ME	
	TU support 9,416 bytes
Layer2 P	
802.1D	Compatible
802.1p	L2 Prioritization
802.1p 802.1Q	L2 Prioritization VLAN Tagging
802.1p 802.1Q 802.1s	L2 Prioritization VLAN Tagging MSTP
802.1p 802.1Q 802.1s 802.1w	L2 Prioritization VLAN Tagging MSTP RSTP
802.1p 802.1Q 802.1s 802.1w 802.1t	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP
802.1p 802.1Q 802.1s 802.1w 802.1w 802.1t 802.3ad VLT (Virt	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP cual Link Trunking)
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP ual Link Trunking) pgrades
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP cual Link Trunking)
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP :ual Link Trunking) pgrades (Gateway
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP :ual Link Trunking) pgrades (Gateway
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP :ual Link Trunking) pgrades / Gateway /er VLT &, ISCSI over VLT
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP cual Link Trunking) pgrades / Gateway /er VLT 8, ISCSI over VLT ver VLT
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Vint Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP cual Link Trunking) pgrades / Gateway /er VLT 8, ISCSI over VLT ver VLT
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP cual Link Trunking) pgrades / Gateway /er VLT 8, ISCSI over VLT ver VLT apliance
802.1p 802.1g 802.1s 802.1w 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP trual Link Trunking) pgrades (Gateway /Gateway /Gateway /SCSI over VLT s, ISCSI over VLT ppliance UDP TCP
802.1p 802.1Q 802.1s 802.1w 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793 854	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP taal Link Trunking) pgrades (Gateway /er VLT Gateway /er VLT by SCSI over VLT ver VLT Topliance UDP TCP Telnet
802.1p 802.1Q 802.1s 802.1w 802.1w 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN o' RFC Con 768 793 854 959	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP tail Link Trunking) pgrades (Gateway /er VLT b, ISCSI over VLT ver VLT hpliance UDP TCP Telnet FTP
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793 854 959 1321	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP cual Link Trunking) pgrades (Gateway ver VLT b, ISCSI over VLT ver VLT ppliance UDP TCP Telnet FTP MD5
802.1p 802.1Q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN o' RFC Con 768 793 854 959 1321 1350	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP :wal Link Trunking) pgrades / Gateway /er VLT 8, ISCSI over VLT ver VLT pliance UDP TCP TGP Telnet FTP MD5 TFTP
802.1p 802.1Q 802.1s 802.1w 802.1t 802.2 ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793 854 959 1321 1350 2474	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP cual Link Trunking) pgrades / Gateway /er VLT &, ISCSI over VLT ver VLT spliance UDP TCP TCP Telnet FTP MD5 TFTP Differentiated Services
802.1p 802.1Q 802.1s 802.1w 802.1t 802.2 ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793 854 959 1321 1350 2474 2698	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP cual Link Trunking) pgrades / Gateway /er VLT 3, ISCSI over VLT ver VLT topliance UDP TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker
802.1p 802.1g 802.1s 802.1w 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793 854 959 1321 1350 2474 2698 3164	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP trual Link Trunking) pgrades (Gateway /Gateway /Gateway /er VLT 0, ISCSI over VLT ver VLT a, ISCSI over VLT ver VLT a, ISCSI over VLT VET b b TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog
802.1p 802.1g 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793 854 959 1321 1350 2474 2698 3164 4254	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP tual Link Trunking) pgrades (Gateway / Gateway / er VLT 0, ISCSI over VLT ver VLT Differentiated FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2
802.1p 802.1Q 802.1S 802.1w 802.1w 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN o' RFC Con 768 793 854 959 1321 1350 2474 2698 3164 4254 General I	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP tual Link Trunking) pgrades (Gateway /er VLT Gateway /er VLT S, ISCSI over VLT ver VLT Topliance UDP TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2 Pv4 Protocols
802.1p 802.1Q 802.1s 802.1w 802.1w 802.2m 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN o' RFC Con 768 793 854 959 1321 1350 2474 2698 3164 4254 General I 791	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP tual Link Trunking) pgrades (Gateway /er VLT a, ISCSI over VLT ver VLT hpliance UDP TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2 IPv4
802.1p 802.1Q 802.1s 802.1w 802.1w 802.2 ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN o' RFC Con 768 793 854 959 1321 1350 2474 2698 3164 4254 General I 791 792	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP tual Link Trunking) pgrades (Gateway ver VLT (Gateway ver VLT (SCSI over VLT ver VLT pliance UDP TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2 Pv4 ICMP
802.1p 802.1q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793 854 959 1321 1350 2474 2698 3164 4254 General I 791 792 826	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP tual Link Trunking) pgrades (Gateway ver VLT (), ISCSI over VLT ver VLT Topliance UDP TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2 Pv4 ICMP ARP
802.1p 802.1q 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN o' RFC Con 768 793 854 959 1321 1350 2474 2698 3164 4254 General 1 791 792 826 1027	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP :ual Link Trunking) pgrades / Gateway /er VLT &, ISCSI over VLT ver VLT spliance UDP TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2 IPv4 Protocols IPv4 ICMP ARP Proxy ARP
802.1p 802.1g 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN or RFC Con 768 793 854 959 1321 1350 2474 2698 3164 4254 General I 791 792 826 1027 1035	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP trual Link Trunking) pgrades (Gateway /Gateway /Gateway /er VLT Gateway /er VLT S, ISCSI over VLT ver VLT npliance UDP TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2 Pv4 Protocols IPv4 ICMP ARP Proxy ARP DNS (client)
802.1p 802.1c 802.1s 802.1w 802.1t 802.3ad VLT (Virt Minloss U VLT Proxy RPVST ov DCB, FSE RSPAN o' RFC Con 768 793 854 959 1321 1350 2474 2698 3164 4254 General 1 791 792 826 1027	L2 Prioritization VLAN Tagging MSTP RSTP RPVST+ Link Aggregation with LACP :ual Link Trunking) pgrades / Gateway /er VLT &, ISCSI over VLT ver VLT spliance UDP TCP Telnet FTP MD5 TFTP Differentiated Services Two Rate Three Color Marker Syslog SSHv2 IPv4 Protocols IPv4 ICMP ARP Proxy ARP

1305	NTPv4
1519	CIDR
1812	Routers
1858	IP Fragment Filtering
2131	DHCP (server and relay)
	VRRP
5798	
3021	31-bit Prefixes
3046	DHCP Option 82 (Relay)
1812	Requirements for IPv4 Routers
1918	Address Allocation for Private
	Internets
2474	
2474	Diffserv Field in IPv4 and Ipv6
	Headers
2597	Assured Forwarding PHB Group
3195	Reliable Delivery for Syslog
3246	Expedited Forwarding PHB
COPP:	Control Plane Policing
00111	Policy Based Routing
Conorol II	
	Pv6 Protocols
1981	Path MTU Discovery
2460	IPv6
2461	Neighbor Discovery
2462	Stateless Address AutoConfig
2463	ICMPv6
2464	Ethernet Transmission
2675	
	Jumbo grams
3587	Global Unicast Address Format
4291	IPv6 Addressing
2464	Transmission of IPv6 Packets over
	Ethernet Networks
2711	IPv6 Router Alert Option
4007	IPv6 Scoped Address Architecture
4213	Basic Transition Mechanisms for IPv6
9210	
40.04	Hosts and Routers
4291	IPv6 Addressing Architecture
5095	Deprecation of Type 0 Routing
	Headers in IPv6
IPv6 Mana	agement support (telnet, FTP, RADIUS,
SSH, NTP	
OSPF)
	NCCA
1587	NSSA
1745	OSPF/BGP interaction
1765	OSPF Database overflow
2154	MD5
2328	OSPFv2
2370	Opaque LSA
3101	OSPF NSSA
3623	OSPF Graceful Restart (Helper
0020	
	mode), Partial Support
Multicast	
2236	IGMPv2 Snooping
BGP	
1997	Communities
2385	MD5
2545	BGP-4 Multiprotocol Extensions for
	IPv6 Inter-Domain Routing
2439	Route Flap Damping
2796	Route Reflection
2842	Capabilities
2918	Route Refresh
3065	Confederations
4271	BGP-4
4360	Extended Communities
4893	4-byte ASN
5396	4-byte ASN Representation
5492	Capabilities Advertisement
Linux Dist	
	ux version 8.4
Linux Kern	0 316

Debian Linux version 8 Linux Kernel 3.16

MIBS

IP MIR IP Forward MIB Host Resources MIB IF MIB LLDP MIB Entity MIB LAG MIB Dell-Vendor MIB TCP MIB UDP MIB SNMPv2 MIB Network Management SNMPv1/2 SSHv2 FTP, TFTP, SCP Syslog Port Mirroring RADIUS 802.1X Support Assist (Phone Home) Netconf APIs XML Schema CLI Commit (Scratchpad) sFlow Automation Control Plane Services APIs Linux Utilities and Scripting Tools **Quality of Service** Access Control Lists 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)

Regulatory compliance Safety

UL/CSA 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: 2009, Class A Canada: ICES-003, Issue-4, Class A Europe: EN 55022: 2006+A1:2007 (CISPR 22: 2006), Class A Japan: VCCI V3/2009 Class A USA: FCC CFR 47 Part 15, Subpart B:2009, Class A Immunity EN 300 386 V1.4.1:2008 EMC for Network Equipment EN 55024: 1998 + A1: 2001 + A2: 2003 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 Japan: VCCI V3/2009 Class A USA: FCC CFR 47 Part 15, Subpart B:2009, Class A

EN 60950-1, Second Edition



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.

Education

Dell Technologies Education Services help you develop the IT skills required to lead and execute transformational strategies. Get certified today.

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Learn more at DellTechnologies.com/Networking

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