S-Series	PowerSwitch S4100 Series			
Overview	Next generation open networking switches for enterprise, mid-market and Tier2 cloud service providers with demanding compute and storage traffic environments			
Models (all sized 1RU)	S4112F-ON	S4112T-ON	S4128F-ON	S4128T-ON
Performance				
Switching capacity (full duplex) (Gbps)	840		960	
Forwarding Capacity (Mpps)	625		714	
Buffer size	12MB			
Ports				
FC8/FC16	N/A			
FC8/FC16/FC32	N/A			
1/10GBase-T	N/A	12	N/A	28
10GbE	12		36	
25GbE	12		8	
40GbE	12 (breakout)		2	
50GbE	3		4	
100GbE	6		2	
Expansion module slots (Modules support speed indicated)	3		N/A	
Power and cooling				
Max. power consumption (W)	180 (max) / 90 (normal)	200 (max) / 120 (normal)	260 (max)/160 (normal)	300 (max)/250 (normal)
Power options	Fixed power supply		AC or DC	
Redundant power supplies	Redundant fixed fans		2	
Airflow	Normal or Reverse		Normal or Reverse	
Features				
Stacking	Not supported			
Operating system	Dell EMC SmartFabric OS10 and select 3rd party OS			
Industry-standard CLI	Dell EMC SmartFabric OS10 and several 3rd party OS			
iSCSI optimization storage features	iSCSI optimization and FSB			
Max L2 VLANs and L3 VLANs	4K/500		500 L3 VLANs	
Max MAC entries	272K		272K	
Link aggregation (groups/Members)	32 links per group, 128 groups		32 links per group, 128 groups	
Max routes (IPv4/IPv6)	200K/130K		200K/130K	
Jumbo frames (Bytes)	9216		9216	
IPv4 routing	OSPF, BGP		OSPF, BGP	
IPv6 routing	MP-BGP, OSPFv3		MP-BGP, OSPFv3	
Multicast routing	PIM-SM, PIM-SSM		PIM-SM, PIM-SSM	
VXLAN	Routing and Bridging			

S-Series	PowerSwitch S4100 Series			
Overview	Next generation open networking switches for enterprise, mid-market and Tier2 cloud service providers with demanding compute and storage traffic environments			
Models (all sized 1RU)	**S4148F-ON**	**S4148T-ON**	**S4148FE-ON**	**S4148U-ON**
Performance				
Switching capacity (full duplex) (Tbps)	1.76			
Forwarding Capacity (Mpps)	759			
Buffer size	12MB			
Ports				
FC8/FC16	N/A			unified SFP+/SFP28
FC8/FC16/FC32	N/A			unified QSFP28
1/10GBase-T	N/A	48	N/A	N/A
10GbE	72			
25GbE	16			
40GbE	6			
50GbE	8			
100GbE	4			
Expansion module slots (Modules support speed indicated)	N/A			
Power and cooling				
Max. power consumption (W)	370 (max)/200 (normal)	440 (max)/320 (normal)	400(max)/240 (normal)	460 (max)/300 (normal)
Power options	AC or DC			
Redundant power supplies	2			
Airflow	Normal or Reverse			
Features				
Stacking	Not supported			
Operating system	Dell EMC SmartFabric OS10 and select 3rd party OS			
Industry-standard CLI	Dell EMC SmartFabric OS10 and select 3rd party OS			
iSCSI optimization storage features	iSCSI optimization and FSB			iSCSI optimization, FSB, NPIV Proxy gateway, F_Port, FCoE/ FC hosts, FC zoning
Max L2 VLANs and L3 VLANs	500 L3 VLANs			
Max MAC entries	272K			
Link aggregation (groups/Members)	32 links per group, 128 groups			
Max routes (IPv4/IPv6)	200K/130K			
Jumbo frames (Bytes)	9216			
IPv4 routing	OSPF, BGP			
IPv6 routing	MP-BGP, OSPFv3			
Multicast routing	PIM-SM, PIM-SSM			
VXLAN	Routing and Bridging			

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S-Series	PowerSwitch S5200 Series				
Overview	Build a high-performance, cost-efficient data center leaf/spine fabric with this spine fabric switch	Provide optimum flexibility and cost-effectiveness for demanding compute and storage traffic environments	Double the amount of direct 25GbE ports with a ToR switch that features 96 x 25GbE SFP28	Low-density 1RU, full-width switch ideal for high-performance HCI connectivity	Low-density 1RU, half-width switch ideal for high-performance HCI connectivity
Models (all sized 1RU, S5296F-ON 2RU)	S5232F-ON	S5248F-ON	S5296F-ON	S5224F-ON	S5212F-ON
Performance					
Switching capacity (full duplex) (Tbps)	6.4	4.0	6.4	2.16	2.16
Forwarding capacity (Mpps)	1.5 Bpps	1.9 Bpps	1.5 Bpps	954	892
Buffer size	32MB				
Ports					
1/10GBase-T	N/A				
1GbE (SFP)	128	80	128	24	12
10GbE	128	80	128	24	12
25GbE	128	80	128	24	12
40GbE	32	8	8	4	3
50GbE	64	16	16	8	6
100GbE	32	8	8	4	3
Expansion module slots	N/A				Redundant (fixed)
Power and cooling					
Max. power consumption (W)	635	647	893	455	304
Power options	AC or DC				
Redundant power (hot-swappable)	2				N/A
Airflow	Normal or Reverse as orderable options, can be reversed in the field				Normal or Reverse
Features					
Operating Systems	Dell EMC SmartFabric OS10, Enterprise SONiC Distribution by Dell Technologies and select 3rd party OS				
Industry-standard CLI (Console, Telnet, SSHv1/v2)	Dell EMC Networking and several 3rd party OS				
iSCSI optimization	iSCSI optimization and FSB				
Max VLANs (Configured)	4K per port				
Max MAC entries	160K				
Link aggregation (Groups/Members)	16 links per group, 128 groups				
Max routes (IPv4/IPv6)	128K/64K				
Jumbo frames	9216 bytes				
IPv4 routing	OSPF, BGP				
IPv6 routing	MP-BGP, OSPFv3				
Multicast routing	PIM-SM, PIM-SSM				
VXLAN	Routing and Bridging				

Series	PowerSwitch N3200 Series								
Overview	Power-efficient and resilient 1GbE and 1/2.5/5/10GbE Multigig range of switching solution with 90W PoE options, for advanced Layer 3 distribution in large enterprise campus and retail networks.								
Models (all sized 1RU)	N3208PX-ON	N3224T-ON	N3224F-ON	N3224P-ON	N3224PX-ON	N3248TE-ON	N3248P-ON	N3248X-ON	N3248PXE-ON
Performance									
Switch capacity (Gbps)	88	528			1080	576		1560	
Forwarding capacity (Mpps)	122	733			1500	800		2167	
Buffer size	4 MB	8 MB						32 MB	
Ports									
1G Base-T	4	24			-	48		-	
5G Base-T Multigig (1/2.5/5G)	4	-							
10G Base-T Multigig (1/2.5/5/10G)	-	-	-	-	24	-	-	48	48
10G SFP+	2	4	4	4	-	4	4	-	-
25G SFP28		-	-	-	4	-	-	4	4
100GbE QSFP28	-	2 (Rear side) - Default for stacking							
Expansion module slots		-							
Power-over-Ethernet ports	8x 802.3bt Type-4 (90W) PoE	-	-	24x 802.3at (30W) PoE	24x 802.3bt Type-4 (90W) PoE	-	48x 802.3at (30W) PoE	-	48x 802.3bt Type-4 (90W) PoE
Power and cooling									
Max power consumption (watts)	900	201	224	944	2740	212	1677	480	5344
Power options	AC or DC*								
Internal power supplies	1 fixed	2 hot swappable redundant power supplies. 1 PSU included, 2nd PSU optional.							
External power supplies/adapters	Optional* (extends PoE budget)	-	-	-	Optional* (extends PoE budget)	-	Optional* (extends PoE budget)	-	Optional* (extends PoE budget)
Airflow	I/O to power supply. Fixed fans.	I/O to power supply; Power supply to I/O options available with non-PoE RJ-45 models. Supports field replaceable fans with N+1 redundancy.							
VLANs	4094								
VLAN support	Voice VLAN, Private Edge, Protocol and MAC-based, GVRP, 802.11x, Auto VLAN								
Layer 2 and 3	Layer 3 Advanced								
Jumbo frames	9216 bytes								
IPv4/IPv6 routing	IPv4 and IPv6 functionality including BGP, VRF, BFD, OSPFv2/v3								
Multicast routing	PIM-SM, PIM-SSM								
Rapid Deployment	Deploy switch configuration files, stacking commands, and firmware updates by simply inserting a USB device.								
Management and security									
Switch security	AAA authorization, TACACS+ accounting and RADIUS support for comprehensive secure access support.								
SNMP support	SNMPv1/2/3								
sFlow	Yes								
Management	GUI access via http/https. CLI via console, Telnet or serial connection.								

* Roadmap

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Series	PowerSwitch N2200 Series				PowerSwitch N1500 Series				N1100
Overview	Power-efficient and resilient 1/2.5G Multigig switching solution with 30/60W PoE support, for mid-to-large enterprise access deployments.				Power-efficient and resilient 1/10GbE switching solution with PoE.				
Models (all sized 1RU)	N2224X	N2224PX	N2248X	N2248PX	N1524	N1548	N1524P	N1548P	N1108EP-ON
Performance									
Switch capacity (Gbps)	480		600		128	176	128	176	24
Forwarding capacity (Mpps)	667		833		128	164	128	164	18
Buffer size	4MB				1.5MB				1.5MB
Ports									
10/100/1000 Base-T	1 Out of Band Management Port				24	48	24	48	8
1GbE	-				-				2
2.5G Base-T	24		48						-
10GbE	-	-	-	-	4 SFP+ (auto-negotiate 1/10Gb)				-
25GbE (SFP28)	4								
40GbE (QSFP+)	2								
Power-over-Ethernet ports	-	12x30W, 12x60W	-	24x30W, 24x60W	-	-	24 PoE+	48 PoE+	8
Power and cooling									
Max. power consumption (watts)	238	1318	326	2486	30.2	44.6	871*	1704*	19.51
AC power supplies	1								1
Redundant power	550W AC	1050W internal pluggable and/or external MPS-1S or MPS-3S power shelf	550W AC	1600W internal pluggable and/or external MPS-1S or MPS-3S power shelf	External RPS-720		External MPS-1000		-
Airflow	IO/PS, PS to IO	IO to PS	IO to PS, PS to IO	IO to PS	I/O panel to PSU				I/O to power supply; Pass through POE
Features									
Stacking	Stacks up to 12 using 40Gb user ports				Up to 4 using SFP ports				N/A
VLANs	4094				512				
VLAN support	Voice VLAN, Private Edge, Protocol and MAC-based, GVRP				Voice VLAN, Private Edge, Protocol-based, Auto VLAN				
Layer 2 and 3	Layer 3 Standard				Layer 2 with static routing				Layer 2 only
IPv4/IPv6 routing	IPv4/IPv6, OSPFv2/v3				IPv4/IPv6				-
Multicast routing	PIM-SM, PIM-SSM				PIM-SM, PIM-SSM				
Rapid Deployment	Deploy switch configuration files, stacking commands and firmware updates by simply inserting a USB device into the port				Yes				
Management and security									
Switch security	Strong passwords, password masking, management access control - privilege levels. RADIUS and TACACS+ support, 802.1x port-based authentication.								
SNMP support	SNMPv1/2/3				SNMPv1/2/3				
sFlow	Yes				v1.3 draft 5				
Management	GUI access via http/https. CLI via console, Telnet, SSH				GUI access via http/https. CLI via console, Telnet, SSH				

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