

S4100 SPEC SHEET



DELL EMC POWERSWITCH S4100-ON

High-performance open networking top-of-rack switches with multirate Gigabit Ethernet and unified ports

The S4100-ON 10GbE switches comprise DellTechnologies' latest disaggregated hardware and software data center networking solutions, providing state-of-the-art 100GbE uplinks, fibre channel connectivity and a broad range of functionality to meet the growing demands of today's data center environment. These innovative, next-generation top-of-rack open networking switches offer optimum flexibility and cost-effectiveness for the enterprise, midmarket and tier 2 cloud service providers with demanding compute and storage traffic environments.

The compact S4100-ON models provide industry-leading density with up to 48 ports of 10GbE or up to 48 ports of 10GBaseT ports, 2 ports of 40GbE and 4 ports of 100GbE in a 1RU form factor. The S4148U-ON model can support up to 28 8/16G fibre channel ports, or 16 ports of 32G* fibre channel ports. The S4112-ON is a half-rack width model that supports up to 12 ports of 10GbE or 12 ports 10GBaseT, and 3 ports of 100GbE.

Using industry-leading hardware and a choice of Dell EMC SmartFabric OS10 or select 3rd party network operating systems and tools, the S4100-ON Series offers flexibility by provision of configuration profiles and delivers non-blocking performance for workloads sensitive to packet loss. The compact S4100-ON models provide multirate speed, enabling denser footprints and simplifying migration to 100Gbps. Also unique to the S4100-ON series is the ability to meet the demands of converged and virtualized data centers

by offering unified ports (S4148U) and hardware support for L2 and L3 VXLAN Gateway. Priority-based flow control (PFC), data center bridge exchange (DCBX) and enhanced transmission selection (ETS) make the S4100-ON ideally suited for DCB environments. Dell EMC PowerSwitch S4100-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 of alternative network operating systems

Maximum performance and functionality

The S4100-ON series are high-performance, multifunction, 1/10/25/40/50/100 GbE and 8/16/32G FC top-of-rack (ToR) switches purpose-built for applications in high-performance data center, cloud and computing environments. Architectural features to optimize data center network flexibility, efficiency and availability include IO panel to PSU airflow or PSU to IO panel airflow for hot/cold aisle environments and redundant, hot-swappable power supplies and fans.

Key applications

- Organizations looking to enter the software-defined data center era with a choice of networking technologies designed to maximize flexibility
- Multi-functional 1/10/25/40/50/100 GbE switching in High Performance Computing Clusters or other business-sensitive deployments requiring the highest bandwidth. High-density 1/10 GbE ToR server access in high-performance data center environments

- iSCSI and FC storage deployment, including DCB converged lossless transactions
- Small-scale data center fabric implementation via the S4100-ON switch in leaf and spine along with S-Series 1/10GbE ToR switches
- · VXLAN layer 2/layer 3 gateway support (available in hardware only)

Key features

- 1RU high-density 10/40/100 GbE ToR switches with up to 48 ports of 10 GbE (SFP+) or up to 48 ports of 10GBaseT ports, or up to 28 ports of 8/16 fibre channel, two ports of 40 GbE (QSFP+), and up to four ports of 100GbE (QSFP28) or four ports of 8/16/32G fibre channel
- The S4112 is a 1RU, half-rack width 10/100GbE ToR switch with up to 12 ports of 10GbE (SFP+) or up to 12 ports of 10GBaseT ports, and up to three ports of 100GbE (QSFP28)
- Multi-rate 100GbE ports support 10/25/40/50 GbE. 40GbE ports support 10GbE. 10GbE ports support 1GbE. Up to four different simultaneous speeds are possible in a given profile.
- Supports dynamic reconfiguration of unified ports on S4148U product as 10GbE or 8/16G FC on SFP+ ports, and 25GbE or 16/32Gb FC on QSFP28 ports
- 1.76Tbps (full-duplex) non-blocking, cut-through switching fabric delivers line-rate performance under full load on S4148F-ON, S4148FE-ON, S4148T-ON and S4148U-ON.
- 960Gbps (full-duplex) non-blocking, cut-through switching fabric delivers line-rate performance under full load on S4128F-ON and S4128T-ON
- 840Gbps (full-duplex) non-blocking, cut-through switching fabric delivers line-rate performance under full load on S4112F-ON and S4112T-ON
- VXLAN gateway functionality support for bridging and routing the non-virtualized and the virtualized overlay networks with line rate performance
- · Converged Network support with DCB
- · IO panel to PSU airflow or PSU to IO panel airflow
- Redundant, hot-swappable power supplies and fans (S4112-ON has redundant, fixed power supplies and fans)
- Support for 10GBASE-LRM optics over OM1/OM2 fiber on S4148FE-ON product (not supported on other products in S4100 product family)
- · IEEE 1588v2 supported (hardware only) on 48 port models

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)
- OS10 Enterprise Edition software enables Dell Technologies 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.

- 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 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

	S4112F-ON	S4112T-ON	S4128F-ON	S4128T-ON	S4148F-ON	S4148FE-ON	S4148T-ON	S4148U-ON
Ports	12xSFP+ 3xQSFP28	12x10GbT 3xQSFP28	28xSFP+ 2xQSFP28	28x10GbT 2x QSFP28	48xSFP+ 2xQSFP+ 4xQSFP28	48xSFP+ 2xQSFP+ 4xQSFP28	48x10GbT 2xQSFP+ 4xQSFP28	48xSFP+ 2xQSFP+ 4xQSFP28
Unified port								•
Max 10GbE density	24	24 (12 10GbT and 12 SFP+)	36	36 (28 10GbT and 8 FP+)	72	72	72 (48 10GbT and 24 FP+)	72
Max 25GbE density	12	12	8	8	16	16	16	16
Max 40GbE density	3	3	2	2	6	6	6	6
Max 50GbE density	6	6	4	4	8	8	8	8
Max 100GbE density	3	3	2	2	4	4	4	4
Max FC 8G/16G ports (oversubscribed)	0	0	0	0	0	0	0	40
Max FC 16G line rate	0	0	0	0	0	0	0	28
Max FC 32G ports (oversubscribed)	0	0	0	0	0	0	0	16
Max FC 32G line rate	0	0	0	0	0	0	0	8
Switching capacity	840Gbps	840Gbps	960Gbps	960Gbps	1.76Tbps	1.76Tbps	1.76Tbps	1.76Tbps
Throughput	630Mpps	630Mpps	720Mpps	720Mpps	1320Mpps	1320Mpps	1320Mpps	1320Mpps
LRM optics support						•		
1588v2 PTP timing					•	•	•	•
Max power consumption	180W	200W	260W	300W	370W	400W	440W	460W
Typical operating power	90W	120W	160W	250W	200W	240W	320W	300W
Number of fan trays	Fixed	Fixed	4	4	4	4	4	4
Fans per fan tray	3	3	1	1	1	1	2	2
Weight	8.30lbs	8.45lbs	19.66 lbs (8.92 kg)	20.67 lbs (9.38 kg)	20.15 lbs (9.14 kg)	20.85 lbs (9.46 kg)	22.37 lbs (10.15 kg)	20.52 lbs (9.31 kg)
Max thermal output	614 BTU/ hour	682 BTU/ hour	886 BTU/h	1,023 BTU/h	1261 BTU/h	1,364 BTU/h	1,500 BTU/h	1,568 BTU/h

Supported

Product	Description
S4100-ON	S4112F, 12x 10GbE SFP+, 3x 100GbE QSFP28, 2x AC Fixed PSU, 3x Fixed Fan, I/O Panel to PSU Airflow S4112F, 12x 10GbE SFP+, 3x 100GbE QSFP28, 2x AC Fixed PSU, 3x Fixed Fan, I/O PSU to I/O Panel Airflow S4112T, 12x 10GBASE-T, 3x 100GbE QSFP28, 2x AC Fixed PSU, 3x Fixed Fan, I/O PSU to I/O Panel Airflow S4112T, 12x 10GBASE-T, 3x 100GbE QSFP28, 2x AC Fixed PSU, 3x Fixed Fan, I/O PSU to I/O Panel Airflow S4112F, 12x 10GbE SFP+, 3x 100GbE QSFP28, 2x DC Fixed PSU, 3x Fixed Fan, I/O Panel to PSU Airflow S4112F, 12x 10GbE SFP+, 3x 100GbE QSFP28, 2x DC Fixed PSU, 3x Fixed Fan, I/O Panel to PSU Airflow S4112T, 12x 10GBASE-T, 3x 100GbE QSFP28, 2x DC Fixed PSU, 3x Fixed Fan, I/O Panel to PSU Airflow S4112T, 12x 10GBASE-T, 3x 100GbE QSFP28, 2x DC Fixed PSU, 3x Fixed Fan, I/O Panel to PSU Airflow S4112T, 12x 10GBASE-T, 3x 100GbE QSFP28, 2x AC PSU, 4x Fan module, I/O Panel to PSU Airflow S4128F, 28x 10GbE SFP+, 2x 100GbE QSFP28, 2x AC PSU, 4x Fan module, I/O Panel Airflow S4128F, 28x 10GbE SFP+, 2x 100GbE QSFP28, 2x AC PSU, 4x Fan module, I/O Panel Airflow S4128T, 28x 10GBASE-T, 2x 100GbE QSFP28, 2x AC PSU, 4x Fan module, I/O Panel Airflow S4128T, 28x 10GBASE-T, 2x 100GbE QSFP28, 2x AC PSU, 4x Fan module, I/O Panel Airflow S4148F, 48x 10GbE SFP+, 2x QSFP+, 4x 100GbE QSFP28, 2x AC PSU, 4x Fan module, I/O Panel Airflow S4148F, 48x 10GbE SFP+, 2x QSFP+, 4x 100GbE QSFP28, 2x AC PSU, 4x Fan module, PSU to I/O Panel Airflow S4148F, 48x 10GbE SFP+, 2x QSFP+, 4x 100GbE QSFP28, 2x AC PSU, 4x Fan module, PSU to I/O Panel Airflow S4148F, 48x 10GbE SFP+, 2x QSFP+, 4x 100GbE QSFP28, 2x AC PSU, 4x Fan module, PSU to I/O Panel Airflow S4148F, 48x 10GbE SFP+, 2x QSFP+, 4x 100GbE QSFP28, 2x AC PSU, 4x Fan module, PSU to I/O Panel Airflow S4148T, 48x 10GBASE-T, 2x QSFP+, 4x 100GbE QSFP28, 2x AC PSU, 4x Fan module, PSU to I/O Panel Airflow S4148U, 24x Unified port SFP+, 24x 10GbE SFP+, 2x QSFP+, 4x Unified port QSFP28, 2x AC PSU, 4x Fan module, PSU to I/O Panel Airflow S4148U, 24x Unified port SFP+, 24x 10GbE SFP+, 2x QSFP+, 4x Unified port QSFP2
Redundant power supplies (not applicable to S4112)	S4100, AC Power Supply, IO Panel to PSU Airflow S4100, AC Power Supply, PSU to IO Panel Airflow S4100, DC Power Supply, IO Panel to PSU Airflow (available as custom kit) S4100, DC Power Supply, PSU to IO Panel Airflow (available as custom kit) S4100, HV DC Power Supply, IO Panel to PSU Airflow S4100, HV DC Power Supply, PSU to IO Panel Airflow
Fans (not applicable to S4112)	S4100 fan module, IO Panel to PSU Airflow S4100 fan module, PSU to IO Panel Airflow
Optics	Transceiver, 1000Base-T, 1GbE (SFP to RJ45) Transceiver, 10GbE, SR SFP+, short reach Transceiver, 10GbE, LR SFP+, long reach Transceiver, 10GbE, ER SFP+, extended reach Transceiver, 10GbE, ER SFP+ extra extended reach 10G, Transceiver, 10GbE, USR, SFP+ Transceiver, 10GbE, LRM, SFP+ (for S4148FE only) Transceiver, 10GBASE-T use with QSA in QSFP+ port, 30m reach on CAT6a/7 Transceiver, 10GBASE-T use with QSA in QSFP+ port, 30m reach on CAT6a/7 Transceiver, 40GbE, SR4 optic QSFP+ Transceiver, 40GbE, eSR4 optic QSFP+ Transceiver, 40GbE, ER4 optics QSFP+ Transceiver, 40GbE, ER4 optics QSFP+ Transceiver, 40GbE, PSM4-LR MPO 10Km QSFP+ to LC Transceiver, 40GbE, LM4 / SM4 Duplex QSFP+ Transceiver, 100GbE, LR4 QSFP28 Transceiver, 100GbE, LR4 QSFP28 Transceiver, 100GbE, LR4 QSFP28 Transceiver, 100GbE, CWDM4 2Km QSFP28 Transceiver, 100GbE, PSM4-500m QSFP28 Transceiver, 100GbE, PSM4-IR, QSFP28 Transceiver, 100GbE, PSM4-IR, QSFP28 Transceiver, 100GbE, PSM4-IR, QSFP28 Transceiver, 5FP+, 16Gbps Fibre Channel, SWL, 850nm, LC Duplex (S4148U model only) Transceiver, QSFP+, 4x16Gbps Fibre Channel, SW4, 850nm, MPO MMF (S4148U model only) Transceiver, QSFP28, 4x32Gbps Fibre Channel, SW4, 850nm, MPO MMF (S4148U model only)
Cables	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 100GbE, 4x25GbE, QSFP28 to 4xSFP28, passive DAC 100GbE, QSFP28 to QSFP28, active optical 100GbE, QSFP28 to QSFP28, passive DAC 100GbE, QSFP28 to QSFP28, passive DAC 100GbE, QSFP28 to QSFP28, passive DAC 100GbE, 2x50GbE, QSFP28 to 2xQSFP28, passive DAC, breakout

Physical	802.3ad	Link Aggregation with LACP	3021	31-bit Prefixes
1 RJ45 console/management port with RS232	802.3ae	10 Gigabit Ethernet (10GBase-X)	3046	DHCP Option 82 (Relay)
	802.3ba	40 Gigabit Ethernet (40GBase-X)		
signaling			1812	Requirements for IPv4 Routers
1 RJ45 micro-USB-B console port	802.3i	Ethernet (10Base-T)	1918	Address Allocation for Private
1 RJ45 10/100/1000Base-T management Ethernet	802.3u	Fast Ethernet (100Base-TX)		Internets
· ·	802.3z	Gigabit Ethernet (1000BaseX)	2474	
port			24/4	Diffserv Field in IPv4 and Ipv6
Size: 1 RU, 1.75"(h) x 17"(w) x 18"(d) (4.4cm (h)	802.1D	Bridging, STP		Headers
x 43.1cm (w) x 45.7cm (d))	802.1p	L2 Prioritization	2597	Assured Forwarding PHB Group
S4112: 1.7"(h) x 8.28"(w) x 18"(d) (4.125cm	802.1Q	VLAN Tagging, GVRP	3195	Reliable Delivery for Syslog
34112. 1.7 (11) x 0.20 (W) x 10 (U) (4.1230111	002.10	VLAN lagging, GVKF		
(h) x 20.9cm (w) x 45cm (d)	802.1Qbb) PFC	3246	Expedited Forwarding PHB
Power supply: 100-240 VAC 50/60 Hz	802.1Qaz	ETS	4364	VRF-lite (IPv4 VRF with OSPF and
Power supply (DC), applicable to S4412: rated	802.1s	MSTP		BGP)
			0000	
-40 to -72 VDC	802.1w	RSTP		Control Plane Policing
Max. current draw per system: 6A/5A at	PVST+		Policy B	ased Routing
100/120V	802.1X	Network Access Control	General	IPv6 Protocols
AC; 3A/2.5A at 200/240V AC	802.3ab		1981	Path MTU Discovery
	002.Jab			
S4112: 2A/1.7A at 100/120V AC; 1A/0.8A at		breakout	2460	IPv6
200/240V AC	802.3ac	Frame Extensions for VLAN Tagging	2461	Neighbor Discovery
S4112 (DC): -40V/5A, -48V/4.2A, -72V/2.8A	802.3ad	Link Aggregation with LACP	2462	Stateless Address AutoConfig
. ,				
Max. operating specifications:	802.3ae	10 Gigabit Ethernet (10GBase-X)	2463	ICMPv6
Operating temperature: 41° to 104° F	802.3ba	40 Gigabit Ethernet (40GBase- SR4,	2464	Ethernet Transmission
(5° to 40° C)		40GBase-CR4, 40GBase-LR4,	2675	Jumbo grams
Operating humidity: 5 to 85% (RH),		100GBase-SR10, 100GBase-LR4,	3587	Global Unicast Address Format
non-condensing		100GBase-ER4) on optical ports	4291	IPv6 Addressing
Max. non-operating specifications:	802.3bj	100 Gigabit Ethernet	2464	Transmission of IPv6 Packets over
Storage temperature: -40° to 149°F	802.3u	Fast Ethernet (100Base-TX) on mgmt		Ethernet Networks
	002.00		0744	
(-40° C to 65° C)		ports	2711	IPv6 Router Alert Option
Storage humidity: 5 to 95% (RH),	802.3x	Flow Control	4007	IPv6 Scoped Address Architecture
non-condensing	802.3z	Gigabit Ethernet (1000Base-X) with	4213	Basic Transition Mechanisms for IPv6
•		algabit Ethernet (1000base-71) With	7210	
Redundancy	QSA			Hosts and Routers
Hot swappable redundant power (not applicable	ANSI/TIA	A-1057 LLDP-MED	4291	IPv6 Addressing Architecture
to S4112)	Jumbo M	1TU support 9,416 bytes	5095	Deprecation of Type 0 Routing
Hot swappable redundant fans (not applicable		Protocols		Headers in IPv6
			ID 0 1 4	
to S4112)	802.1D	Compatible		anagement support (telnet, FTP,
Fixed, redundant power supply and fan for S4112	802.1p	L2 Prioritization	TACACS	S, RADIUS, SSH, NTP)
Performance	802.1Q	VLAN Tagging	OSPF	
				NOO.4
Packet buffer memory: 12MB	802.1s	MSTP	1587	NSSA
CPU memory: 4GB	802.1w	RSTP	1745	OSPF/BGP interaction
MAC addresses: 272K (in Scaled L2 mode)	802.1t	RPVST+	1765	OSPF Database overflow
				MD5
PVST: 128 instances		Link Aggregation with LACP	2154	
ARP table 200K (in Scaled	VLT (Vir	tual Link Trunking)	2328	OSPFv2
L3 host mode)	VLT Enha	ancements	2370	Opaque LSA
IPv4 routes: 200K (in Scaled	Minloss U		3101	OSPF NSSA
`		1 0		
L3 routes mode)		y Gateway	3623	OSPF Graceful Restart (Helper
IPv6 hosts: 64K	RVPST o	ver VLT		mode)
IPv6 routes: 130K (in Scaled L3 routes mode)	DCB ESE	3, iSCSI over VLT	Securit	v
Multicast hosts: 8K	RSPAN o		2865	RADIUS
Link aggregation: 32 links per group, 128		npliance	3162	Radius and IPv6
groups	768	UDP	4250, 42	251, 4252, 4253, 4254 SSHv2
Layer 2 VLANs: 4K	793	TCP	4301	Security Architecture for IPSec
				,
Layer3 VLANs: 500	854	Telnet	4302	IPSec Authentication Header
MSTP: 32 instances	959	FTP	4303	ESP Protocol
LAG load balancing: Based on layer 2, IPv4 or IPv6	1321	MD5	BGP	
headers	1350	TFTP	1997	Communities
L2 Ingress ACL: 6K	2474	Differentiated Services	2385	MD5
L2 Egress ACL: 1K	2698	Two Rate Three Color Marker	2439	Route Flap Damping
IPv4 Ingress ACL: 6K	3164	Syslog	2796	Route Reflection
IPv4 Egress ACL: 1K	4254	SSHv2	2842	Capabilities
		IPv4 Protocols		•
IPv6 Ingress ACL: 3K			2918	Route Refresh
IPv6 Egress ACL: 500	791	IPv4	3065	Confederations
Storage performance parameters	792	ICMP	4271	BGP-4
iSCSI Sessions: 255	826	ARP	4360	Extended Communities
iSCSI Target: 16	1027	Proxy ARP	4893	4-byte ASN
F-Port: Max F-Port Sessions: 526	1035	DNS (client)	5396	4-byte ASN Representation
F-Port: Max members in a zone: 526	1042	Ethernet Transmission	5492	Capabilities Advertisement
Dell EMC SmartFabric OS10 Software	1191	Path MTU Discovery		istribution
Specifications	1305	NTPv4		inux version 8.4
IEEE Compliance	1519	CIDR	Linux Ke	ernel 3.16
802.1AB LLDP	1588v2	PTP support	MIBS	
TIA-1057 LLDP-MED	1812			Net SNMP
		Routers		
802.1s MSTP	1858	IP Fragment Filtering	IP Forwa	ard MIB– Net SNMP
802.1w RSTP				
002.1W K31F	2131	DHCP (server and relay)	Host Re	sources MIB- Net SNMP
802.3ab Gigabit Ethernet (1000Base-T)		DHCP (server and relay) VRRP		sources MIB- Net SNMP - Net SNMP

LLDP MIB Entity MIB LAG MIB Dell-Vendor MIB TCP MIB - Net SNMP UDP MIB - Net SNMP SNMPv2 MIB - Net SNMP

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)

Data Center Bridging eXchange (DCBx) DCBx Application TLV (iSCSI, FCoE)

Fibre Channel (applicable only to S4148U-ON) FCF F-Port FC Zoning

Regulatory compliance

UL/CSA 60950-1, Second Edition

Safety

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

Australia/New Zealand: AS/NZS CISPR 32: Class A

Canada: ICES-003, Issue-4, Class A

Europe: EN 55032: 2015+A1:2007 (CISPR 32),

Japan: VCCI V3/2009 Class A

USA: FCC CFR 47 Part 15, Subpart B:2009,

Class A

mmunity

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 Warranty

1 Year Return to Depot



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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.

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