

VEP4600 Spec Sheet



VIRTUAL EDGE PLATFORM 4600

Next Generation Access

Purpose-built open uCPE platform to host VNFs (Virtual Networking Functions). Ideal access platform for SD-WAN.

The VEP4600 is a Dell EMC networking platform purpose-built for next generation access deployments. The VEP4600 is an Universal CPE (uCPE) and is ideal for hosting SD-WAN and other VNFs (Virtual Network Functions) like routing, firewall or deep-packet inspection. It offers hosted virtualized network functionality, with applicability for the SP Edge and Enterprise Branch. The VEP4600 is 1 RU sized, using the latest Intel® Xeon® D-2100 x86-based processor which is optimized for networking. Dell EMC is the first to market with Xeon-D for SD-WAN. The VEP4600 will provide high performance and the necessary headroom for hosting VNF services, using 3 design principals:

- purpose-built,
- future ready, and
- validated choice.

Purpose-built uCPE platform for open and disaggregated networking

The Dell EMC Networking Virtual Edge Platform is optimized to host VNFs (Virtual Network Functions) and is ideal for SD-WAN. This single-socket, 1RU platform is perfect for the service provider edge or enterprise branch.

- First to market with networking optimized Intel® Xeon® D-2100 x86-based processor
- Accelerates packet processing with Intel® Data Plane Development Kit (DPDK)
- Accelerates security encryption with Intel® QuickAssist Technology (QAT)
- Supports KVM and ESXi hypervisors and native Linux.
- Front-to-back airflow, front facing ports, and redundant power option
- Short-depth chassis design excellent for telco use cases

Future ready

The VEP4600 is designed to be open and ready to add more VNF services or expand capabilities

- Ready to add multiple VNFs, without a fork lift upgrade.
- 4 DIMM slots, 2 M.2 SSD on the baseboard and 2 mezzanine expansion slots.
- Two 10G SFP+ Network ports
- Out of band management ports
- Mezzanine cards will add additional interface and mobile capabilities (later 2018).

Validated choice

Dell is adding substantial value to the VEP4600, with a concept we call Validated Choice. Choice is value added by offering our carefully selected SD-WAN and Network Virtualization solutions from leading vendors, with whom we have formally partnered: e.g., Silver Peak, VeloCloud, and Versa. Validation is value added with our joint testing, BOMs, Reference Architectures, and designs. Moreover, validation is not just product validation but also supply chain validation. Customers will be able to take advantage of the Dell EMC ordering system, worldwide delivery and customer support. Validation accelerates time to revenue; and reduces deployment risks.

VEP4600 overview		
Features	Technical Specification	
CPU	Intel Xeon-D 2100 (4,8 and 16 core)	
Networking ports	4 x 1GE 2 x 10GE	
Management ports	2X - 10/100/1000Base-T: one for CPU and one for BMC	
USB ports	2X - USB type A receptacle (female) ports supports USB 3.0 1X - Micro USB type B receptacle (female) port, available for console port	
Console ports	2X – Serial: one for CPU and one for BMC	
Storage Option	2x M.2 SATA up to 1 TB, CRU/FRU field replaceable	
Out of Band Management	BMC IPMI 2.0 compliant	
Memory	4 DIMM slot (up to 64GB), CRU/FRU field replaceable	
Software Validation	Partner driven	
TPM	2.0	
QAT	Yes (except for 4 core)	
Expansion slots	2 X Mezzanine slot	
ВМС	IPMI 2.0 compliant	
Power Supplies	2 PSU, maximum, hot swappable and redundant	
Fans	5 maximum for 16 core, 4 maximum for 4 and 8 core, hot swappable and redundant	
Airflow	Front to back	
Operating system	Supports Linux (Ubuntu OS and Red Hat/Cent OS) and VMware ESX	

VEP4600 Physicals		Inches	cm
Product	Width	17.1	43.4
	Depth	15	38.1
	Height	1.75	41.25
Shipping Box	Width	22.64	57.5
	Depth	23.78	60.4
	Height	8.38	21.3
Rack clearance required (Front)		5	12.7
Rack clearance required (Rear)		5	12.7
Product Weight		13.75 lbs (6.24 kg) (1PSU and 4 fans) 15.75 lbs (7.14 kg) (2 PSUs and 5 fans)	

VEP4600 Power		
Power Input	AC: 100 to 240 VAC, 50/60 Hz	
Typical current draw per system – AC	110VAC: 1.8A (16 core) 240VAC: 0.85A (16 core) 110VAC: 1.5A (8 core) 240VAC: 0.7A (8 core) 110VAC: 1.35A (4 core) 240VAC: 0.65A (4 core)	
Dower Congumntion	Typical	200W (16 core) 170W (8 core) 160W (4 core)
Power Consumption	Max	300W (16 core) 230W (8 core) 220W (4 core)

VEP4600 Regulatory		
Safety	 UL/CSA 60950-1, Second Edition EN 60950-1, Second Edition Including all National Deviations and Group Differences IEC 62368-1 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 Fiber Communication Systems FDA Regulation 21 CFR 1040.10 and 1040.11 	
Emissions	 Australia/New Zealand: AS/NZS CISPR 32, Class A Canada: ICES-3/NMB-3, Class A Europe: EN 55024 (CISPR 24), Class A Japan: VCCI Class A USA: FCC CFR 47 Part 15, Subpart B, Class A 	
Immunity	 EN 300 386 EMC for Network Equipment EN 55024 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	EN 50581:2012 All S9999 components are EU RoHS compliant.	

VEP4600 Operations	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Operating Relative humidity	5% to 85% (RH), non-condensing Continuously 5% to 90% (RH), non-condensing Short term (< 1% of operational hour per year)
Storage Relative humidity	5% to 90% (RH)
Operating Altitude	No performance degradation to 10,000 feet (3,048 meters)

Learn more

Our Virtual Edge Platform team is proud to bring you the VEP4600, to meet and exceed the demanding high-performance requirements for open and disaggregated networking. The VEP4600 is designed from the ground up, with the headroom and performance, to host multiple VNFs, like SD-WAN. We've partnered with Intel to be first to market with the Intel Xeon-D 2100 network optimized processor; and leading SD-WAN vendors like VeloCloud, Versa, and SilverPeak to provide a comprehensive solution.

For information, visit http://www.dell.com/en-us/work/shop/povw/virtual-edge-platform-4600. Contact your Dell Sales Representative for additional information and to discuss your next generation access requirements.



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