DELL Technologies

VEP1400 Spec Sheet

VIRTUAL EDGE PLATFORM 1400

Next Generation Access

Purpose-built high-value uCPE platform series to host VNFs (virtual networking functions). Ideal access platform for SD-WAN. Value optimized for smaller locations. Complements higher performance VEP4600.

The VEP1400 series is a Dell networking platform purpose-built for next generation access deployments. The VEP1400 is a value designed Universal CPE (uCPE), and it is ideal for hosting SD-WAN and other Virtual Network Functions (VNFs) like routing, firewall or deep-packet inspection. It offers hosted virtualized network functionality, with applicability for the service provider edge and enterprise branch locations. The VEP1400 is designed in a fixed desktop form factor, with optional rack mount kit, using Intel® Atom® C-3000 x86-based processor which is optimized for value, lower power consumption and multiple core options. The VEP1400 complements the higher performing modular VEP4600.

High performance for hosting VNF services is incorporated into the VEP1400 using 3 design principals:

- Purpose-built,
- Future ready, and
- Validated choice

Purpose-built uCPE platform for open and disaggregated networking

The Dell Virtual Edge Platform is optimized to host VNFs and is ideal for SD-WAN. The fixed form factor is perfect for the service provider edge or enterprise branch, where high-value, low power, compact form factor and configuration options are design considerations.

- High-value fixed form factor
- Compact desktop dimensions, with available kit for rack installations.
- Intel Atom C-3000 x86-based Denverton and Denverton-L processors, designed for performance and low power consumption
- Processing from 4, 8 or 16 core options offers more head-room to add VNFs
- Quick Assist Technology (QAT) to accelerate security encryption
- Data Plane Development Kit (DPDK) to accelerate packet processing
- Memory from 8, 16 or 32GB options
- Storage from 120 or 240GB options
- Ports: 6x1G RJ45, 2x10G SFP+, 4x1G RJ45 (on VEP1420N), 2x USB 3.0 ports
- Supports KVM and ESXi hypervisors and native Linux.

Future ready

This high value fixed form factor uCPE is future ready to add multiple VNFs without a forklift upgrade.

Validated choice

The VEP1400 brings you simplified deployment and maximum choice with validated hardware and software options.

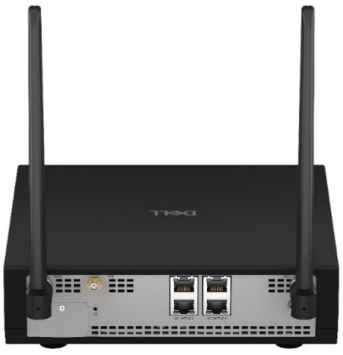
- Multiple configurations offer choices in cores, storage, memory and ports
- Software
  - Preloaded on VEP1400 - Versa FlexVNF, licenses to be obtained from Versa or mailing versa@dell.com
  - Available as validated build and on Dell price list - Adtran Ensemble Connector, VMware vSphere
  - Partners who have validated their software on the VEP1400 – Versa, Adtran, Linux distros and more
- Widely available around the world with Dell 's world-class supply chain
- Validation accelerates time to revenue and reduces deployment risks

VEP1400 models

						
Features	VEP1420LTE	VEP1420	VEP1420N	VEP1425/ 1425N	VEP1445/ 1445N	VEP1485/ 1485N
CPU	Denverton 4 Core C3436L			Denverton 4 Core C3558	Denverton 8 Core C3758	Denverton 16 Core C3958
Drive	32G eMMC			M.2 120 SSD with 16G eMMC Flash	M.2 240 SSD with 16G eMMC Flash	M.2 240 SSD with 16G eMMC Flash
RAM	8G			8G	16G	32G
Ports	4x 10/100/1000-base-T GE ports (RJ45)			6x1G RJ45, 2x10G SFP+	6x1G RJ45, 2x10G SFP+	6x1G RJ45, 2x10G SFP+
Fan	1		0 (Fanless)	1	2	2
WiFi & LTE & GNSS	802.11 ax/a/ b/g/n/ac, 2x2 MIMO 4G LTE, 3G WCDMA; GNSS	802.11 ax/a/b/g/n/ac, 2x2 MIMO	N/A	802.11ac, 2x2 MIMO (only VEP1425)	802.11ac, 2x2 MIMO (only VEP1445)	802.11ac, 2x2 MIMO (only VEP1485)

Rear View

VEP1420LTE



VEP1400 overview

Features	Technical Specification
CPU	Intel Atom C-3000 Denverton and Denverton-L (VEP1420 models)
Networking ports	VEP1420/1420LTE/1420N - 4x10/100/1000-base-T GE ports (RJ45) VEP1425/1425N/1445/1445/1485/1485N - 6x1G RJ45, 2x10G SFP+
Management ports	Out-of-band management using micro-USB 2.0 console port.
USB ports	2x USB 3.0 type A. One on each of the two sides.
Console ports	Dedicated management console on micro-USB port.
Storage Option	One M.2 SATA SSD with capacity of 120GB or 240G based on SKU. 2GB of eMMC storage on VEP1420 models.
Memory	Memory: DDR4 with ECC, on-board (by SKU) and on-board + SO-DIMM socket (by SKU) with size 8GB, 16GB, and 32GB. SKUs with 32GB have 16GB on-board and 16GB using SO-DIMM. 8GB DDR4 on VEP1420 models.
Connectors	M.2 and mini-PCIe (These are internal connectors and modules plugged into these are NOT field upgradable. M.2 is for SSD. Mini-PCIe is for WiFi module.)
TPM	2.0
QAT	Yes
Power Supply	External
Fans	Fanless for VEP1420N, One fan for VEP1420-LTE/1420/1425/1425N, Two fans on VEP1445/1445N, VEP1485/1485N.
Airflow	Exhaust on sides and back
Operating system	Supports Native Linux OS provided by the VNF partners. Supports KVM or ESXi hypervisors.
Mounting options	Optional wall or rack mounts available. Ships with footpads for desktop use.
Software	Pre-loaded with Versa FlexVNF during manufacture; and can be erased for installation of other software.

VEP1400 Physicals		Inches	cm
Product	Width	8.1	20.8
	Depth	7.9	20.0
	Height	7.9	5.2
Shipping Box	Width	19.4	49.5
	Depth	11.3	28.7
	Height	4.3	10.9
Product Weight		2.82 lb (1.28 kg) to 3.15 lb (1.43 kg), depending on SKU	

VEP1400 Power

Power Input	AC: 100 to 240 VAC, 50/60 Hz	
Max current draw per system – AC	100VAC: 2.0A 240VAC: 1.0A	
Power Consumption	Typical	VEP1420: 28W VEP1420N: 23W VEP1420LTE: 31W VEP1425/1425N: 20W VEP1445/1445N: 35W VEP1485/1485N: 40W
	Max	VEP1420: 29W VEP1420N: 24W VEP1420LTE: 32W VEP1425/1425N: 30W VEP1445/1445N: 45W VEP1485/1485N: 50W

VEP1400 Regulatory

Safety	• UL/CSA 60950-1, Second Edition • EN 60950-1, Second Edition • IEC 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 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.
Other	• Safety: IEC62368-1 • AS/NZS 60950 • EN 60950-1 Safety of Information Technology Equipment • EMC compliance • ICES-003 (Canada) Class A • EN55032:2015 (Europe) Class A • CISPR32 (International) Class A • AS/NZS CISPR32 (Australia and New Zealand) Class A • taiwanKN32 (Korea) Class A • CNS13438 (Taiwan) Class A • CISPR24 • EN300 386

VEP1400 Operations

Operating Temperature	0°C to 40°C (32°F to 104°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	Maximum operating altitude is 10,000 feet (3048 m).

IT Lifecycle Services for Networking

Experts, insights and ease

Our highly trained experts, with innovative tools and proven processes, help you transform your IT investments into strategic advantages.

Plan & Design

Let us analyze your multivendor environment and deliver a comprehensive report and action plan to build upon the existing network and improve performance.

Deploy & Integrate

Get new wired or wireless network technology installed and configured with ProDeploy. Reduce costs, save time, and get up and running fast.

Educate

Ensure your staff builds the right skills for long- term success. Get certified on Dell Networking technology and learn how to increase performance and optimize infrastructure.

Manage & Support

Gain access to technical experts and quickly resolve multivendor networking challenges with ProSupport. Spend less time resolving network issues and more time innovating.

Optimize

Maximize performance for dynamic IT environments with Dell Optimize. Benefit from in-depth predictive analysis, remote monitoring and a dedicated systems analyst for your network.

Retire

We can help you resell or retire excess hardware while meeting local regulatory guidelines and acting in an environmentally responsible way.

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