



## DELL EMC VIRTUAL EDGE PLATFORM 1405 FOR ADVA

Next Generation Access pre-validated for ADVA

Dell Technologies Virtual Edge Platform (VEP) is now available pre-validated with ADVA software, saving time and enabling the rapid expansion of edge modernization. Dell Technologies and ADVA engineering resources pre-validate both the hardware and software, allowing for simple, fast, and secure expansion to your network with seamless integration into existing ADVA management systems.

The VEP1405 series is a Dell Technologies networking platform purpose-built for next generation access deployments. The VEP1405 is a value designed 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 VEP1405 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 VEP1405 complements the higher performing modular VEP4600. There are 2 models of the VEP1405 series for ADVA: VEP1445 (8 cores) and VEP1485 (16 cores). In addition to being ADVA-ready, the VEP1405 series may be utilized for a wide selection of VNFs, from other SD-WAN software to virtual security functions and networking applications.

- ✓ **Purpose-built** – hardware designed specifically for the needs of virtualized networking
- ✓ **Future ready** – VEP provides a platform to add more virtualized networking functions when needed
- ✓ **Validated choice** – Pre-loaded software from ADVA to save time and make expansion seamless

### Purpose-built uCPE platform for open and disaggregated networking

The Dell Technologies Networking Virtual Edge Platform is optimized to host VNFs (Virtual Network Functions) 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 processor, designed for performance and low power consumption
- Processing from 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
- SR-IOV support on all interfaces to accelerate virtualization use cases
- WiFi comes standard
- Ports: 6X1G (standard), 2X10G SFP+
- Supports KVM and ESXi hypervisors and native Linux

## Future ready and seamless integration

This high value fixed form factor uCPE is future ready to add multiple VNFs without a forklift upgrade. Seamlessly integrate new edge hardware into your existing ADVA management, with full coordination and tracking between Dell Technologies and ADVA that makes future expansions easy, zero touch, and low risk.

## Validated choice

The VEP1405 brings you simplified deployment and maximum choice with validated hardware and software options.

- Multiple configurations offer choices in cores, storage, memory, and ports
- Widely available around the world with Dell Technologies' 's world-class supply chain
- Validation accelerates time to revenue; and reduces deployment risks.

## VEP1405 ADVA-ready models

	<b>VEP1445 for ADVA</b>	<b>VEP1485 for ADVA</b>
CPU	Denverton 8 Core C3758	Denverton 16 Core C3958
Drive	960 SSD with 16G eMMC Flash	2TB SSD with 16G eMMC Flash
RAM	32G	64G
Ports	(6 x 1G) + (2x 10G SFP+)	(6 x 1G) + (2x 10G SFP+)
Fan	2	2
WiFi	802.11ac, 2x2 MIMO, max. phy rate: 866.7 Mbps	802.11ac, 2x2 MIMO, max. phy rate: 866.7 Mbps
Bluetooth	Bluetooth	Bluetooth

## Rear View (VEP1445/1485)



## VEP1405 overview

Features	Technical Specification
CPU	Intel Atom C-3000 Denverton (8 and 16 core)
Networking ports	8 core - 6 x 1G copper, 2 x 10G SFP+ 16 core - 6 x 1G copper, 2 x 10G 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 960G or 2TB based on SKU.
Memory	Memory: DDR4 with ECC, size 32GB and 64GB depending on SKU selected.
TPM	2.0 for SKUs that feature TPM. It is N/A for SKUs without TPM.
QAT	Yes
Power Supply	External
Fans	Two fans on VEP1445, VEP1485.
Airflow	Exhaust on sides and back
Mounting options	Wall mount included, or optional rack mounts available. Ships with footpads for desktop use.
Software	Pre-loaded ADVA Ensemble connector during manufacture

VEP1405 Physicals		Inches	cm
Product	Width	8.1	20.8
	Depth	7.9	20.0
	Height	2.0	5.2
Shipping Box	Width	19.4	49.5
	Depth	11.3	28.7
	Height	4.3	10.9
Product Weight		2.87 lb (1.30 Kg) to 3.11 lb (1.41 Kg), depending on SKU	

VEP1405 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	40W (16 core) 35W (8 core)
	Max	50W (16 core) 45W (8 core)

VEP1405 Regulatory	
Safety	<ul style="list-style-type: none"> <li>• UL/CSA 60950-1, Second Edition</li> <li>• EN 60950-1, Second Edition</li> <li>• IEC 60950-1, Second Edition Including all National Deviations and Group Differences</li> <li>• IEC 62368-1</li> <li>• EN 60825-1 Safety of Laser Products Part 1: Equipment Classification Requirements and User's Guide</li> <li>• EN 60825-2 Safety of Laser Products Part 2: Safety of Optical Fiber Communication Systems FDA Regulation</li> <li>• 21 CFR 1040.10 and 1040.11</li> </ul>
Emissions	<ul style="list-style-type: none"> <li>• Australia/New Zealand: AS/NZS CISPR 32, Class A</li> <li>• Canada: ICES-3/NMB-3, Class A</li> <li>• Europe: EN 55024 (CISPR 24), Class A</li> <li>• Japan: VCCI Class A</li> <li>• USA: FCC CFR 47 Part 15, Subpart B, Class A</li> </ul>
Immunity	<ul style="list-style-type: none"> <li>• EN 300 386 EMC for Network Equipment</li> <li>• EN 55024</li> <li>• EN 61000-3-2: Harmonic Current Emissions</li> <li>• EN 61000-3-3: Voltage Fluctuations and Flicker</li> <li>• EN 61000-4-2: ESD</li> <li>• EN 61000-4-3: Radiated Immunity</li> <li>• EN 61000-4-4: EFT</li> <li>• EN 61000-4-5: Surge</li> <li>• EN 61000-4-6: Low Frequency Conducted Immunity</li> </ul>
RoHS	<ul style="list-style-type: none"> <li>• EN 50581:2012 All S9999 components are EU RoHS compliant.</li> </ul>
Other	<ul style="list-style-type: none"> <li>• Safety: IEC62368-1</li> <li>• AS/NZS 60950</li> <li>• EN 60950-1 Safety of Information Technology Equipment</li> <li>• EMC compliance</li> <li>• ICES-003 (Canada) Class A</li> <li>• EN55032:2015 (Europe) Class A</li> <li>• CISPR32 (International) Class A</li> <li>• AS/NZS CISPR32 (Australia and New Zealand) Class A</li> <li>• taiwanKN32 (Korea) Class A</li> <li>• CNS13438 (Taiwan) Class A</li> <li>• CISPR24</li> <li>• EN300 386</li> </ul>

VEP1405 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 (3048m).

### Learn more

Our Virtual Edge Platform team is proud to bring you the VEP1405 series, to meet and exceed the demanding high-performance requirements for open and disaggregated networking. The VEP1405 series is designed with the value and performance, to host multiple VNFs, like SD-WAN. We've partnered with Intel using the Atom C-3000 network optimized low power processor; and leading SD-WAN vendors like ADVA to provide a comprehensive solution.

For information, please visit [DellTechnologies.com/VEP](http://DellTechnologies.com/VEP). Contact your Dell Sales Representative for additional information and to discuss your next generation access requirements.



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