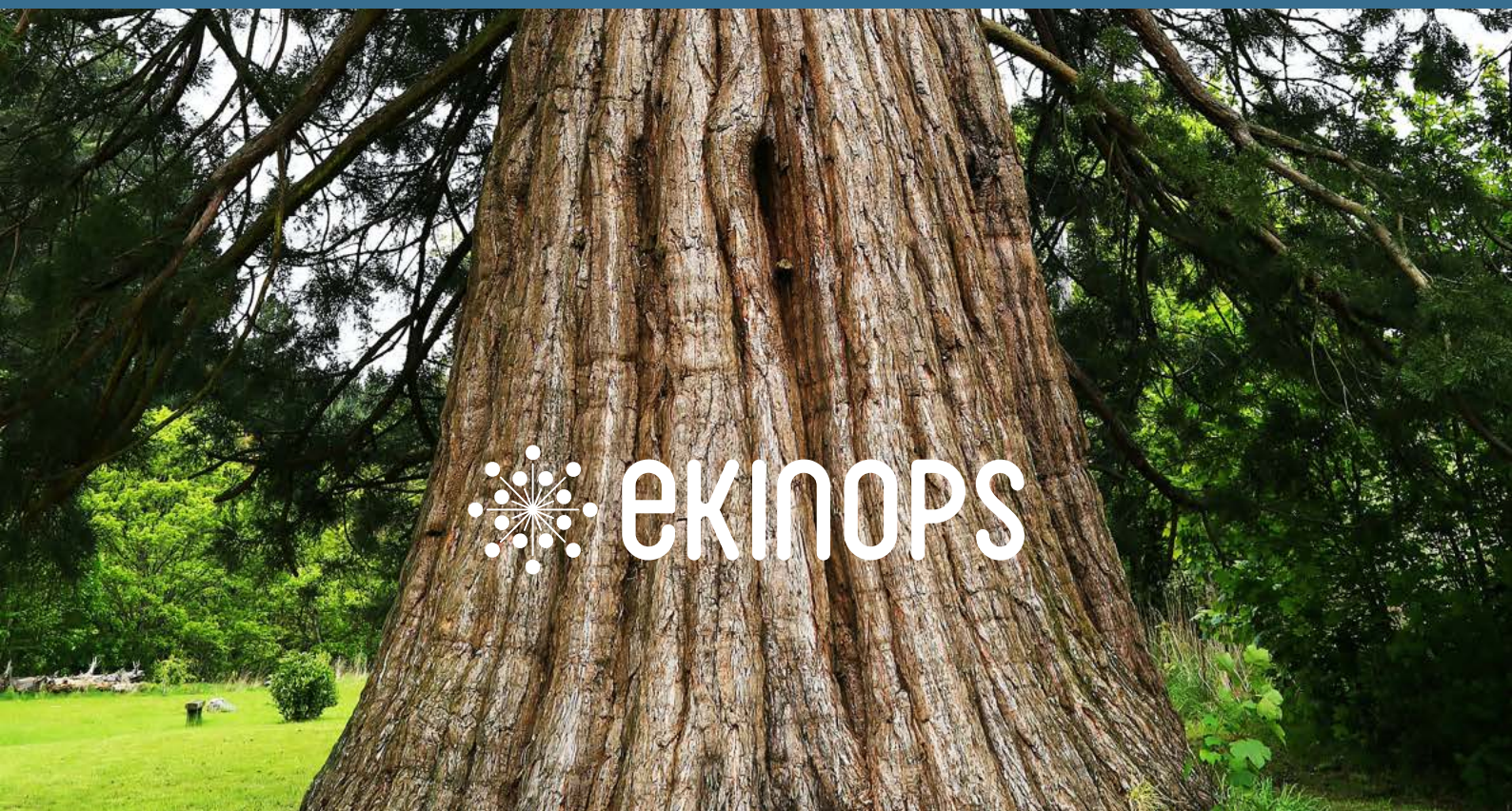




**ONEACCESS OVP uCPEs**



 **ekinops**





DATASHEET

# OVP4xx uCPE Series

Open Network Virtualization



## Optimized Networking Hardware

With the OVP4xx series, Ekinops brings a powerful yet cost-effective uCPE (universal CPE) solution. Based on the Intel® Denverton C-series of CPUs, architectures from 4 up to 16 CPU cores are supported.

The units feature both copper and SFP based Ethernet connectivity, and include encryption acceleration technology based on QAT (Quick Assist Technology), as well as a TPM (Trusted Platform Module) for optimal security.



## Perfect Integration with Ekinops OneOS6-LIM

The staging of the OneOS6-LIM hypervisor (middleware) on the hardware is part of the delivery of the OVP4xx uCPE. This way the units are ready to start building network services right away.

## Model Overview



| Model      | CPU Type        | CPU Threads | 10/100/100 Base-T | SFP (1G) | Other | RAM | SSD |
|------------|-----------------|-------------|-------------------|----------|-------|-----|-----|
| OVP404     | Denverton C3558 | 4           | 6                 | 2        | -     | 8   | 120 |
| OVP408     | Denverton C3758 | 8           | 6                 | 2        | -     | 16  | 120 |
| OVP408-LTE | Denverton C3758 | 8           | 6                 | 2        | LTE   | 16  | 120 |
| OVP416     | Denverton C3958 | 16          | 6                 | 2        | -     | 32  | 240 |

# Technical Specifications



### Processor Specifications

- Intel® Atom® C3000 (Denverton): 4, 8 or 16 cores (model dependent)

### Network Connections

- 4 x GbE RJ45 Intel® SoC
- 2 x GbE RJ45 Intel® i350
- 2 x GbE SFP Intel® i350

### LTE/4G Connection (optional)

- CAT6 LTE
- External accessible SIM
- External dual antennas

### Security Features

- Intel® QuickAssist Technology (QAT) Acceleration
- TPM (Trusted Platform Module) 2.0

### System Memory RAM

- DDR4 SODIMM
- Socket 2 x 260-pin SODIMM
- 8, 16 or 32 Gbyte (model dependent)

### SSD

- 120 or 240 Gbyte (model dependent)

### USB

- 2 x USB 2.0

### Expansion Slots

- 2 x Mini-PCIe (PCIe/USB2.0),
- 1 x M.2 2242 B Key (USB3.0)

### Console Port

- 1x RJ45, RS-232

### Miscellaneous

- Reset Button
- Power Button
- Internal RTC with Li Battery
- Integrated Watchdog

### Cooling

- Smart Fan cooling

### Environmental Parameters

- Operating temperature: 0~40°C
- Non operating temperature: -20~70°C
- Operating relative humidity: 5~90%
- Non operating relative humidity: 5~95%

### System Dimensions

- WxDxH: 231 x 200 x 44 mm (91 x 78.7 x 17.32")
- Weight: 1.2 kg (2.2 lbs)

### Power

- 60W external Power Adapter
- Input AC voltage: 100~240V @50~60 Hz
- Output DC Voltage: 12VDC

### Approvals and Compliance

- RoHS
- CE Class B
- FCC Class B
- UL

## About Ekinops



Ekinops is a leading provider of open and fully interoperable Layer 1, 2 and 3 solutions to service providers around the world. Our programmable and highly scalable solutions enable the fast, flexible and cost-effective deployment of new services for both high-speed, high-capacity optical transport networks and virtualization-enabled managed enterprise services

Our product portfolio consists of three highly complementary product and service sets: Ekinops360, OneAccess and Compose.

- Ekinops360 provides optical transport solutions for metro, regional and long-distance networks with WDM for high-capacity point-to-point, ring and optical mesh architectures, and OTN for improved bandwidth utilization and efficient multi-service aggregation.
- OneAccess offers a wide choice of physical and virtualized deployment options for Layer 2 and Layer 3 access network functions.
- Compose supports service providers in making their networks software-defined with a variety of software management tools and services, including the scalable SD-WAN Xpress.

As service providers embrace SDN and NFV deployment models, Ekinops enables future-proofed deployment today, enabling operators to seamlessly migrate to an open, virtualized delivery model at a time of their choosing.

A global organization, with operations in 4 continents; Ekinops (EKI) - a public company traded on the Euronext Paris exchange - is headquartered in Lannion, France, and Ekinops Corp., a wholly-owned subsidiary, is incorporated in the USA.



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# OVP808 uCPE

*Open Network Virtualization*

## Optimized Networking Hardware

The OVP808 is an Open Virtual Platform designed for service providers who want to combine several network functions, possibly from different vendors, in a single box.

With the OVP808, Ekinops offers a platform, which combines a powerful CPU with a large number of network connections. The Intel® Xeon-D1518 CPU incorporates 4 CPU cores, serving 8 processing threads. As much as 11 Gigabit Ethernet ports are available for building an advanced networking service.



## Perfect Integration with Ekinops OneOS6-LIM

The staging of the OneOS6-LIM hypervisor (middleware) on the hardware is part of the delivery of the OVP808 uCPE. This way the units are ready to start building network services right away. Based on standard protocols and open data models, the OneOS6-LIM framework lays the foundation for hosting, chaining and managing both Ekinops and third party VNFs. OneOS6-LIM is also capable of enabling the embedded router functions and offers the base for building SD-WAN enabled networks.

More information on these capabilities can be found in the OneOS6-LIM documentation.

## Technical Specifications

### Processor Specifications

- Intel® Xeon D1518
- 4 cores, 8 logical CPU threads

### Network Connections

- 7 x GbE RJ45 Intel® i210
- 4 x GbE RJ45 Intel® i350 with SR-IOV support

### System Memory RAM

- DDR4 2, 4GHz, 16GB ECC
- Socket 2 x 288-pin DIMM

### SSD

- 240 Gbyte

### USB

- 2 x USB 2.0 type A

### Console Port

- 1x RJ45, RS-232, V.24, V.28 and EIA/TIA 574 compliant

### LEDs

- Activity LEDs for each Ethernet port
- Power
- Status
- Storage (SSD)

### Miscellaneous

- Power button
- Reset button
- Internal RTC with Li battery
- Integrated Watchdog
- 2 x 20 LCD display with 4 keypads

### Cooling

- 2x Cooling Fans with Smart Fan

### Environmental Parameters

- Operating temperature: 0~40°C
- Non operating temperature: -20~70°C
- Operating relative humidity: 5~90%
- Non operating relative humidity: 5~95%

### System Dimensions

- WxDxH: 438 x 321 x 44 mm (172.44 x 126.38 x 17.32")
- Weight: 7.5 kg (15.4 lbs)

### Power

- 220W ATX single PSU (internal)
- Input AC voltage: 90~240V @47~63 Hz
- Connector: IEC

### Approvals and Compliance

- RoHS
- CE Class AS
- FCC Class A
- UL

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- OneAccess offers a wide choice of physical and virtualized deployment options for Layer 2 and Layer 3 access network functions.
- Compose supports service providers in making their networks software-defined with a variety of software management tools and services, including the scalable SD-WAN Xpress.

As service providers embrace SDN and NFV deployment models, Ekinops enables future-proofed deployment today, enabling operators to seamlessly migrate to an open, virtualized delivery model at a time of their choosing.

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**EKINOPS360**  
Dynamic Optical Transport

 **COMPOSE**

**ONEACCESS**  
Fast Network Virtualization



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# OVP824 uCPE

*Open Network Virtualization*

## Optimized Networking Hardware

The OVP824 is an Open Virtual Platform designed for service providers who want to combine several network functions, possibly from different vendors, in a single box.

With the OVP824, Ekinops offers a platform, which allows the delivery of high-end, demanding network services at speeds up to 10 Gbps. The Intel® Skylake D-2163IT CPU incorporates 12 CPU cores, serving 24 processing threads. As much as 8 Gigabit Ethernet ports and 4 SFP+ optical ports are available for building an advanced networking service.



## Perfect Integration with Ekinops OneOS6-LIM

The staging of the OneOS6-LIM hypervisor (middleware) on the hardware is part of the delivery of the OVP824 uCPE. This way the units are ready to start building network services right away. Based on standard protocols and open data models, the OneOS6-LIM framework lays the foundation for hosting, chaining and managing both Ekinops and third party VNFs. OneOS6-LIM is also capable of enabling the embedded router functions and offers the base for building SD-WAN enabled networks.

More information on these capabilities can be found in the OneOS6-LIM documentation.

# Technical Specifications

## Processor Specifications

- Intel® Skylake D-2163IT
- 12 cores, 24 logical CPU threads

## Network Connections

- 8 x GbE RJ45 Intel® i350 with SR-IOV support
- 4 x SFP+ 10 Gbps SOC with SR-IOV support

## System Memory RAM

- DDR4 2, 66 GHz, 64GB ECC (4 x 16 GB)
- Socket 4 x 288-pin DIMM

## SSD

- 960 Gbyte SATA 6Gb/s

## USB

- 2 x USB 2.0 type A

## Console Port

- 1x RJ45, RS-232, V.24, V.28 and EIA/TIA 574 compliant

## LEDs

- Activity LEDs for each Ethernet port
- Power
- Status
- Storage (SSD)

## Miscellaneous

- Power button
- Reset button
- Internal RTC with Li battery
- Integrated Watchdog
- Onboard M.2 2242 slots

## Cooling

- 4x Individual hot-swappable cooling fans with Smart Fan

## Environmental Parameters

- Operating temperature: 0~40°C
- Non operating temperature: -40~70°C
- Operating relative humidity: 5~90%
- Non operating relative humidity: 5~95%

## System Dimensions

- WxDxH: 438 x 510 x 44 mm (172.44 x 20.08 x 17.32")
- Weight: 7.5 kg (15.4 lbs)

## Power

- 450W ATX 1+1 redundant PSU (internal)
- Input AC voltage: 90~240V @47~63 Hz
- Connector: IEC

## Approvals and Compliance

- RoHS
- CE Class A
- FCC Class A
- UL

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