

FSP 150ProVMi

Open edge server

Customers today demand more than just connectivity. That's why service providers now focus on managed IT services and virtual network function (VNF) hosting. Our FSP 150 ProVMi is the industry's first open edge compute platform combining carrier-grade design practices with high-performance server and storage resources for fast and easy appliance hosting on the customer premises.

NFV raises expectations but presents significant challenges as new technologies need to be integrated into carrier-grade networks. As an open, general-purpose compute platform, our FSP 150 ProVMi is specifically designed for managed services delivered on the customer premises. It can host multiple software-based VNFs and is specifically designed for carrier networks featuring a wide range of interfaces. In combination with our Ensemble Connector, a pre-integrated solution enables seamless migration from Carrier Ethernet networking to edge hosting of a wide range of software appliances



Your benefits

- ✓ **Balancing cost and performance**
Pure-play server for hosting customer and network appliances on a common node
- ✓ **Carrier-grade design**
Environmentally hardened design meeting service provider demands
- ✓ **Unique set of open interfaces**
Deployable in any edge application through multiple interface options
- ✓ **Combining demarcation and hosting**
Easy integration into Carrier Ethernet networks with virtual CE 2.0 functionality
- ✓ **Embedded OpenStack**
Practical implementation of open source virtual infrastructure management solution
- ✓ **Live network deployments**
Minimizing technology innovation risk by deploying field-proven technology

High-level specifications

Physical

- 1RU ETSI/ANSI-compatible form factor supporting field upgrades and servicing
- Rack- or wall-mount options
- NEBS compliant for CPE

System

- Multi-core Intelx86 architecture with 4GB–32GB memory
- Upgradable SSD for Linux OS and VNF
- Remote update of BIOS and OS
- Dying gasp on the WAN interfaces
- 1588v2 PTP

Interfaces

- Built-in: up to 6 x GE, including up to 4 SFP optical, USB 2.0 (Type A host), PCIe Gen2 and mPCIe Gen2
- Expandable interface card options: Ethernet over copper (bonded G.SHDSL)
- Wireless broadband: 3/4G wireless via mPCIe slot with external antennae
- Bulk storage: via internal SATA or eSATA

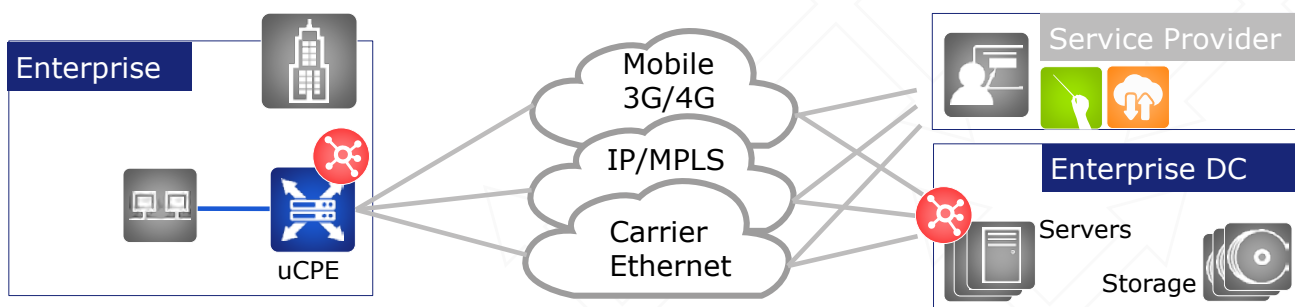
Software platform

- MEF CE 2.0 compliant Ethernet access device via built-in network function
- Virtualization platform comprising
 - Linux KVM/QEMU hypervisor
 - Optimized virtual switch
 - OpenStack support for integration with Ensemble Orchestrator
- Software can be used at service edge and aggregation sites

Applications in your network

Virtual network functions at the service edge: universal customer premises equipment (uCPE)

- Replacing multiple network and enterprise edge devices with a single network element
- Seamless migration from offering bandwidth services to managed services
- Meeting stringent cost requirements with a pure-player carrier-grade server solution
- Software-adaptable to different network technologies including SD-WAN
- Applicable in a wide range of multi-access edge computing (MEC) and uCPE use cases – Carrier Ethernet CE 2.0 and further network functions provided by Ensemble software components
- Self-sufficient solution with co-hosted OpenStack controller at the edge



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