

ETX-2v

Open uCPE White Box Platform



- Versatile suite of carrier-grade white boxes, suitable for uCPE or “bare-metal” deployments
- Flexible connectivity options: SFP, SFP+, RJ-45 Ethernet, WiFi, LTE, VDSL, and pluggable PNFs
- Optionally hosts RAD’s vCPE-OS or third-party operating system
- Hardware-based security

ETX-2v is a suite of carrier-grade white boxes, installed at the customer premises (either at headquarters or in remote branch sites) to support a wide range of business customer needs and user scenarios, from small offices to large sites, using a variety of bandwidth and processing power options.

MARKET SEGMENTS AND APPLICATIONS

ETX-2v is an x86-based open platform, which can host virtual functions (VFs) and applications. It is optimized for use with RAD’s vCPE-OS (a carrier-grade operating system for network edge virtualization with optimized data plane), or any other third-party operating system. RAD’s vCPE-OS includes a standard KVM hypervisor and OpenStack compute node to host third-party applications (VFs) or integrate opposite third-party service orchestrators (see separate documentation on vCPE-OS).

supports Intel® Denverton and Xeon-D processors with ordering choice from 2 to 16 cores.

For business service applications, fits centralized, decentralized, or a mix of both implementation modes.

In centralized deployments, acts as a “thin CPE” by decoupling the operating systems’ networking and NFVI capabilities.

In decentralized deployments, ETX-2v functions as a uCPE (universal CPE), hosting an array of VNFs for supporting the following applications:

- **Router:** Enterprise router for hosted public clouds and branch CPE deployments
- **SD-WAN:** Software-defined control of WAN connections with secure overlay tunnels for business services
- **Cryptography:** Standard AES 256-bit cipher encryption/decryption of L2-L4 traffic
- **Next-Generation Firewall:** Unified threat management for provider-managed SMB services

- **Session Border Controller (SBC):** Management of VoIP signaling and media flows
- **Packet Analyzer:** Troubleshooting on demand from the customer edge using a packet sniffer VF
- **WAN Optimization:** Eliminating content duplication, handling compression and optimizing latency

SD-WAN

When hosting an SD-WAN VNF, ETX-2v reduces networking costs and ensures fast deployment of Business services over any infrastructure.

Service providers can offer self-service portals, as well as application-aware visibility and control.

SFPS

ETX-2v can be used with RAD’s pluggable modules, to fit any access media.

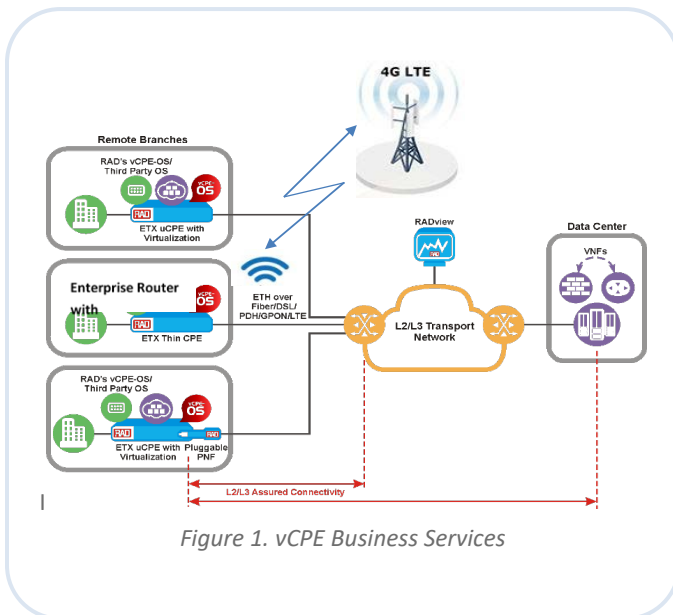
HARDWARE FEATURES

There are several HW options based on Denverton and Xeon x86 CPUs, with flexible selection of memory and number of network ports. The following is an example of HW features for the most popular platforms with 2 x 10G and 6 x GE ports:

- 2 x SFP+ ports with SRIOV support
- 4 x RJ45 ports with SRIOV support
- 4 x RJ45 ports with optional POE
- Optional Bypass on RJ45 ports
- TMP support
- Optional LTE, WiFi, or VDSL
- Management: RJ45 and USB
- RAM ECC Memory: up to 32Gb on fixed and up to 256G on modular platforms

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- SSD size: selectable option from 64Gb to 1Tb
- AC Power Adapter: 100~240V, 1.5A, 50-60Hz, 40W
- Modular platforms can host 2 redundant AC Power Supplies
- Dimensions:
 - Desktop 248.4(W) x 251.5(D) x 44(H)mm
 - 19" Rack Mounted 438 (W) x 455(D) x 44(H)mm
- Operating Environment: 0°C to 40°C, 10 to 90% RH

Ordering

Please contact your local RAD partner for configuration options.

ORDERING OPTION EXAMPLES

ETX-2V-CA/AC/VD/2SP/6U/D4C/64S/8R/LE

WB with VDSL, 2 x SFP+, 6 x UTPs, SRIOV, 4 DNV Cores, 8GB RAM, 64GB MLC SSD, LTE, AC power supply

ETX-2V-CA/AC/2SP/6U/D8C/128S/8R/LE

WB, 2 x SFP+, 6 x UTPs, SRIOV, 8 DNV Cores, 8GB RAM, 128GB MLC SSD, LTE, AC power supply

ETX-2V-CA/AC/2SP/6U/D16C/256S/32R

WB, 2 x SFP+, 6 x UTPs, SRIOV, 16 DNV Cores, 32GB RAM, 256GB MLC SSD, AC power supply

ETX-2V-CA/AC/2CMB/4U/D4C/128S/8R

WB, 2 x GE Combo ports, 4 x UTPs, SR-IOV, 4 DNV Cores, 8GB RAM ECC, 128GB MLC SSD Mini SATA, AC power supply

ETX-2V-CA/AC/2SP/10U/X16C/512S/32R

WB, 2 x SFP+, 4 x UTPs, SR-IOV, 6 x UTP Switched, 16 XEON-D Cores, 32GB RAM, 512GB MLC SSD, AC power supply

ETX-2V-CA/ACR/2SP/6U/X12C/512S/64R

WB, 2 x SFP+, 6 x UTPs, SR-IOV, 12 XEON-D Cores, 64GB RAM, 512G MLC SSD, TPM, Redundant AC power supply, 19", 1U size, modular (4 Expansion slots)

OPTIONAL ACCESSORIES

VCPE-OS

Carrier-grade operating system for virtualization

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