

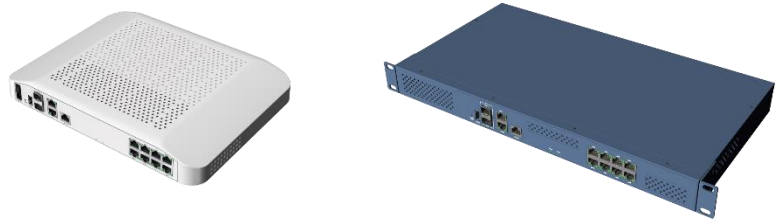


VED2181F

Virtual Edge Appliance

Product Applications

- uCPE/vCPE
- SD-WAN
- Edge Computing
- Firewall/VPN Security Router Gateway
- Wireless Controller
- Wireless IoT Edge Gateway



The VED2181F is a high-performance open virtual-edge appliance platform based on an ARM*v8 processor with packet-processing acceleration and high-speed peripherals. The platform is truly open, either install an available operating system and application software that suits your needs, or build your own customized device that represents a solid future-proof investment.

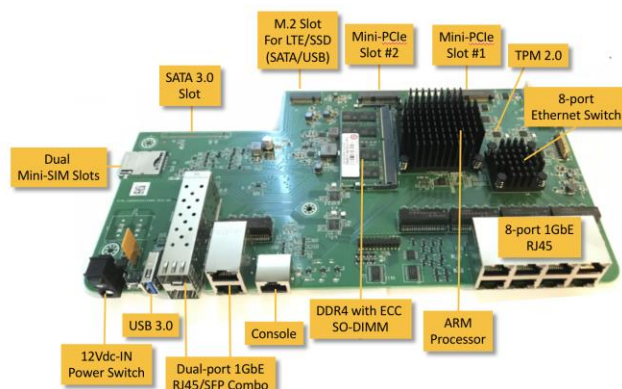
The flexible hardware platform supports a range of Gigabit Ethernet interfaces, memory, storage configuration, and optional Wi-Fi and/or LTE connectivity. The design includes internal eMMC, M.2, and 2.5" disk drives, all contained within a desktop or 19" 1U rack-mount form-factor.

The VED2181F hardware platform is ideal for many next-generation SME virtualized networking applications.

*ARM is a registered trademark of Arm Limited.

Key Features

- Feature-rich and cost-effective ARM-based hardware platform for SME virtualized networking applications.
- Common board design to support performance scaling and virtualization-acceleration variations per application need by utilizing an ARM Cortex A72 4-core, or A53 2/4/8-core processor while maintaining hardware and software compatibility.
- Mix and match memory and storage (NAND flash, eMMC, HDD, SSD) configurations.
- Modular Wi-Fi and LTE wireless connectivity options.
- Supports dual-port 1GE RJ-45 copper or SFP fiber combo uplink and 8-port 1GbE RJ-45 copper LAN interfaces.



VED2181F Hardware Specifications

| Function | Description |
|--------------------------------|---|
| Network Processor | NXP LS1046A 4-core ARM Cortex A72 @ 1.2GHz |
| Network Interface | <ul style="list-style-type: none"> 2-port 1GbE RJ-45/SFP combo WAN ports 8-port 1000BASE-T Ethernet LAN ports |
| DDR4 (64-bit) with ECC (8-bit) | One SO-DIMM slot to support up to 16 GBytes DDR4 (Speed: 1600MT/s) |
| Storage | <ul style="list-style-type: none"> One SATA 3.0 slot for 2.5" HDD or SSD One shared M.2 slot (SATA/USB) for SSD option (shared with LTE radio) |
| Boot NOR Flash | 4–16 MBytes SPI NOR flash |
| NAND Flash | <ul style="list-style-type: none"> Up to 1 GBytes on-board NAND flash Up to 128 GBytes eMMC flash |
| TPM | On-board TPM v2.0 |
| Wireless | <ul style="list-style-type: none"> One shared M.2 slot (SATA/USB) for LTE modem module option Two mini-PCIe slots for Wi-Fi radio module option |
| USB | One USB 3.0 host port with A-type connector |
| Power Supply | External AC-DC power adapter (desktop SKU) or internal PSU (rack mount SKU) |
| Product Form Factor | Desktop type plastic enclosure or 19" 1U sheet metal rack-mount chassis |
| Operating Temperature | +0°C – +40°C |

VED2181F Hardware Configuration Options

| Function | Specification | Note |
|----------------------------|-----------------------------------|------------------|
| SO-DIMM Slot | 4–16 GBytes DDR4 with ECC | Default 8 GBytes |
| Boot NOR Flash | 4–16 MBytes SPI NOR flash | Default 4 MBytes |
| NAND Flash (On-board) | 1 GBytes | Option |
| eMMC Flash | 4–128 GBytes | Default 8 GBytes |
| 2.5" HDD or SSD (SATA 3.0) | Up to 1 TBytes | Option |
| Mini-PCIe (x1) Slot #1 | Wi-Fi 2.4 GHz (Wave-2) | Option |
| Mini-PCIe (x1) Slot #2 | Wi-Fi 5 GHz (Wave-2) | Option |
| M.2 USB/SATA Slot | Shared for LTE Modem or mSATA SSD | Option |
| 2-port 1GE RJ-45/SFP Combo | Uplink | On-board |
| 8-port 1GE RJ-45 Switch | Downlink | On-board |