

## Open-Source SD-WAN & SASE Solution



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Typical SD-WAN & SASE solutions come as closed box solutions with many technologies, some sublicensed. This avoids deploying solutions that comprise the capabilities required for the specific deployment, and only those, while increasing software and hardware cost.

Lanner partners with flexiWAN to offer SD-WAN & SASE solution in an open, modular and vendor-agnostic architecture which allows for dynamic loading of router and management networking applications bringing to networking the concepts of the mobile application.

Lanner's white-box uCPE hardware becomes pre-validated for flexiWAN's SD-WAN to liberate enterprises and service providers from vendor lock-in equipment, allowing the implementation of third-party VNF and simplified management in traffic routing and application-optimization.



### uCPE NCA-1040A

- Onboard Intel® Atom X6413E CPU (Codename Elkhart Lake)
- DDR4 3200MHz, SODIMM, Max. 32GB
- 4x 1GbE RJ45 (1x PoE+ included),
- 1x Console, 1x USB 3.0, 1x Display Port
- 4x Antenna Holes (2 x Front & 2 x Rear)
- 1x Mini-PCIe, 1x M.2, 2x Nano SIM



### uCPE NCA-1515

- Intel® Atom® C3000 Processor
- 6 x GbE & 2 x SFP with SR-IOV
- 2400/2133/1866MHz ECC/ non ECC SODIMM, Max. 64GB
- LTE/WIFI ready with PTCRB & Verizon ODI certification
- Support TPM 2.0, BMC
- 1 x Cooling Fan w/ Smart Fan Control



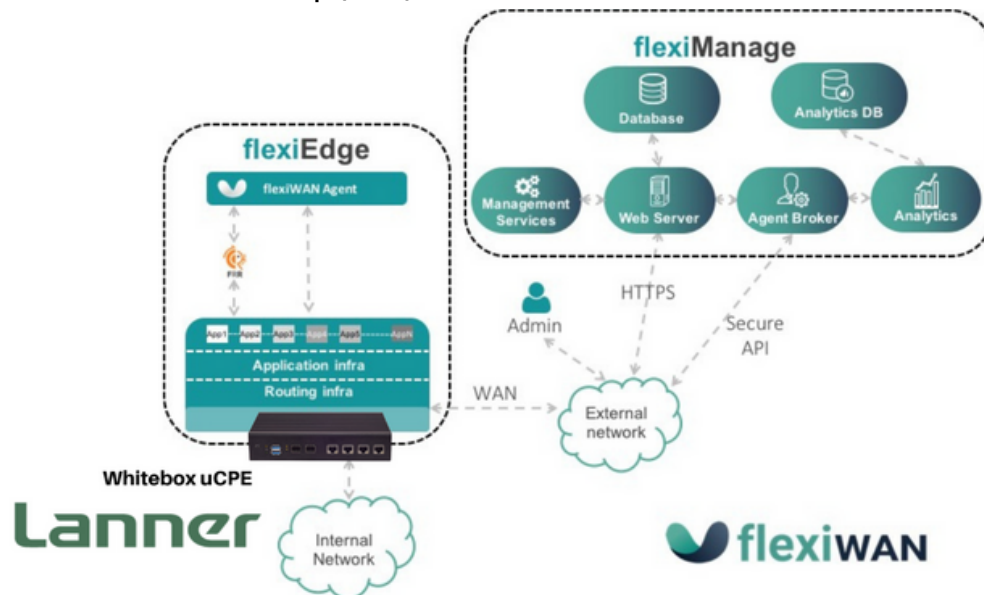
### uCPE L-1513

- Intel® Atom® C3000 Processor (Codename Denverton)
- 6x or 4x GbE RJ45 or 4x GbE RJ45 + 2x SFP (by SKU)
- DR4 2133/1866MHz, Max. 16GB
- 1x RJ45 Console, 2x USB 3.0/2.0, Onboard EMMC 8G, 1x Nano SIM
- 1x Mini-PCIe, 1x M.2 2280/2242, 1x M.2 3042



## flexiWAN SD-WAN & SASE Solution

flexiWAN offers a comprehensive, centrally managed SD-WAN open source solution. Through its application framework, it allows for 3rd party networking applications to be dynamically loaded and run in the flexiEdge data flow and flexiManage efficiently. By this, enterprises and service providers can deploy an SD-WAN solution that answers their specific networking requirements while achieving significant cost savings and reduction of Total Cost of Ownership (TCO).



### flexiEdge

A flexiEdge device comprises three key components:

- Router infrastructure - a modified version of FD.io Vector Packet Processor (VPP) - <https://fd.io/gettingstarted/technology/>
- Routing control plane - Free Range Routing (FRR) - <https://frrouting.org/>
- flexiWAN Agent - The software element that connects flexiEdge with the flexiManage system broker through on-the-wire secure APIs

### flexiManage

flexiManage runs on a scalable web server for network management:

- flexiManage system broker is responsible for communicating with flexiEdge devices and serves as the communication channel between the web server and the devices.
- flexiWAN analytics system collects statistics from the flexiEdge devices and provides monitoring status and updates to network administrators.

## Ordering Information

Name	PN	CPU	Core Count	Memory	SSD	Wireless
X-SMALL	FLEXI-1040A-4C-4E-64M	Atom C3558	4	4GB	64GB	N/A
X-SMALL	FLEXI-1040A-4C-4E-64M-CQ4	Atom C3558	4	4GB	64GB	Cat 4 Quectel LTE
Small	FLEXI-1513E-4C-8E-64M	Atom C3558	4	8GB	64GB	N/A
Small	FLEXI-1513E-4C-8E-64M-CQ4	Atom C3558	4	8GB	64GB	Cat 4 Quectel LTE
MEDIUM	FLEXI-1515B-4C-8E-64M	Atom C3558	4	8GB	64GB	
MEDIUM	FLEXI-1515B-4C-8E-64M-CQ6	Atom C3558	4	8GB	64GB	Cat 6 Quectel LTE
LARGE	FLEXI-1515A-8C-16E-128M	Atom C3758	8	16GB	128GB	
LARGE	FLEXI-1515A-8C-16E-128M-CQ6	Atom C3758	8	16GB	128GB	Cat 6 Quectel LTE