

Product Description

SONiC Lite is a sustainable, scalable, end-to-end solution based on Community SONiC for cost-effective platforms in DC, edge, and campus deployments.

- Extends a variety of Community SONiC's use cases to management and access switches.
- Enables the construction of networks using less demanding and more affordable networking equipment while remaining hardware vendor-neutral.
- Contains all the key features of SONiC needed for your use case, including (L2 switching, L3 routing, and security).
- Stays in sync with the latest stable version of Community SONiC available.
- Enables the unification and harmonization of networking infrastructure, avoiding the complexity of managing a multi-NOS environment.
- Lightweight and easy-to-deploy solution with several critical features, unavailable in Community SONiC, such as xSTP, OLS, and PoE.

SONiC Lite Use Case

SONiC Lite's main use case is as an access switch. The access layer, as the lowest hierarchical inter-networking model, connects end-users or end nodes such as PCs, printers, and wireless access points to the network. This layer facilitates the continuous network connection of the end devices no matter where they are located. In the meantime, the design of the L1 depends on the upper layer connections.

SONiC Lite Benefits Enterprises:

Vendor Neutrality: Leverage a white box model approach and avoid vendor lock-in.

Feature Velocity: Stay ahead with ongoing feature development.

Cost-Efficiency: Optimize operational and capital expenses with less demanding equipment.

Regular NOS Updates: Benefit from regular updates and security patches.

Customization: Get access to custom NOS features developed on request.

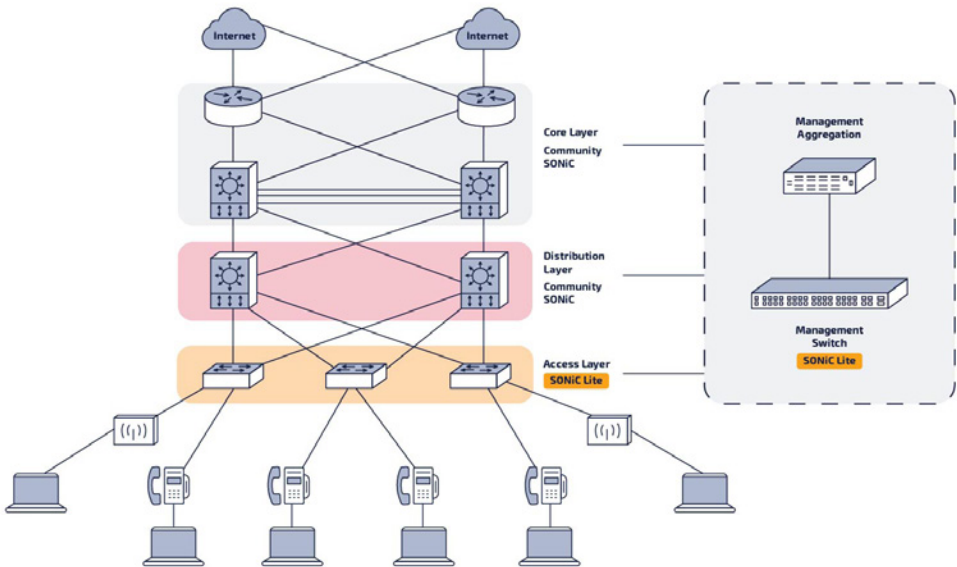
Unified Network Environment: SONiC Lite for campus & edge deployments, and Community SONiC on DC, distribution, & core layers.

SONiC Lite benefits OEM and ODM vendors:

Expanded Hardware Feature Set for a specific customers' use cases in campus and edge deployments.

Lower BOM Costs Per Switch allow OEM and ODM vendors to offer more competitive options to their clients.

Access switches from the L1 connect with distribution layer switches and end devices, as well as ensure the packets are delivered to end devices. They also must meet the requirements of the layer to provide certain functions (network management simplification, security, etc.) for the specific network environment.



SONiC Lite Features

SONiC Lite comes with a pre-configured set of features specifically designed for access switches:

Management and security L2

- TACACS+
- RADIUS
- 802.1x
- OLS Client
- klish CLI*

L3

- LLDP
- xSTP
- DHCP Server
- VLAN
- LACP
- DHCP relay*

Others

- IPv4/IPv6
- Static routing
- BGP*
- OSPF*
- ISIS*
- QoS
- Storm Control
- PoE++
- ACL (L3-L4)
- SONiC 202405 as baseline

*Planned for Q3-Q4 2024





Supported ASICs



Marvell AC5X family

SONiC Lite Supported Hardware

SONiC Lite offers compatibility with a current list of switch models, with more options being added regularly.

SKU	Model	Port Config
	ES-2227-54TS PoE and no PoE	32x1G+16x2, 5G+6x25G
	ES-2221-54TS PoE and no PoE	32x1G+16x2, 5G+6x25G
	ECS4650-54P PoE	48x1G+6x25G
	ECS4650-54T	48x1G+6x25G

Company Highlights

- **Globally trusted partner** for SONiC, DASH and DentOS adoption
- **Building ready-to-go products** based on disaggregated networking systems
- **Recognized member** of the Linux Foundation, Telecom Infra Project, and Open Compute Project
- **Contributor to open NOS communities** (SONiC, DENT)

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