Open Networking meets Open Software for Data Center deployments

SONiC

Product Overview

Enterprise SONiC Distribution by Edgecore is a hardened, open distribution of SONiC (Software for Open Networking in the Cloud) which runs on Edgecore Open Networking switches. The SONiC Community is led by Microsoft and many key players, including Edgecore, to deliver a robust and proved software infrastructure to enable customer to build highly portable, scalable data center networks.
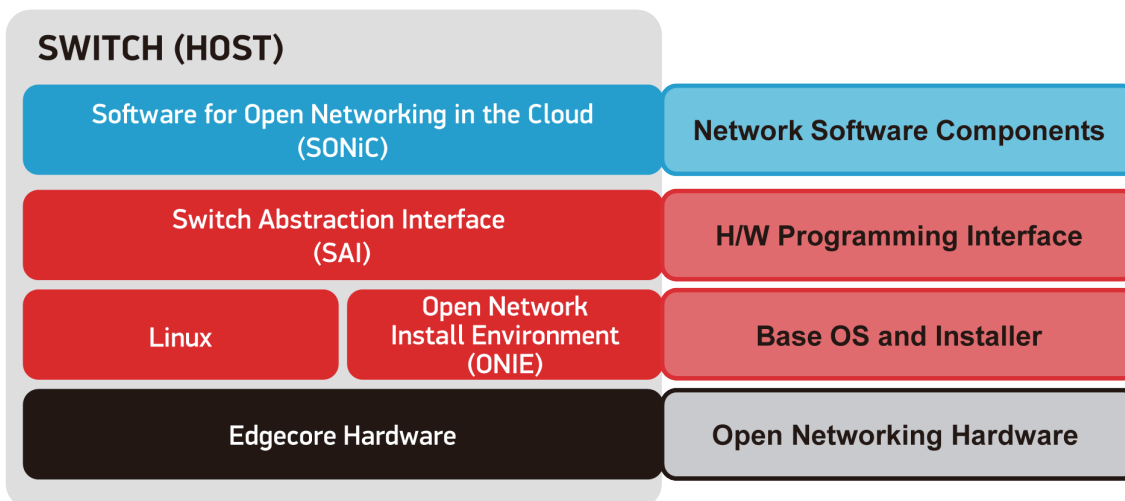
Multiple merchant switching silicon platforms

Enterprise SONiC Distribution by Edgecore can run across multiple choices of switch platforms for 1G/10G/25G/100G/400G, including well know silicon solution like Broadcom and Intel. Choices of different silicon design gives users freedom of their network design.

The only production ready and truly opened SONiC distribution in market

Enterprise SONiC Distribution by Edgecore is built from Community SONiC distribution, which has been further tested and hardened to ensure production-ready deployment on Edgecore Open Networking platforms, and all changes are contributed back to community.

One stop support for full software stack plus hardware

Enterprise SONiC Distribution by Edgecore is validated with variety of optics and cables delivered from Edgecore as well as industry sources. This ensures that the overall system – switch hardware, firmware, NOS, and connectivity, from drivers to applications, are proven to work together, removing concern about platform level interoperability.

SWITCH (HOST)

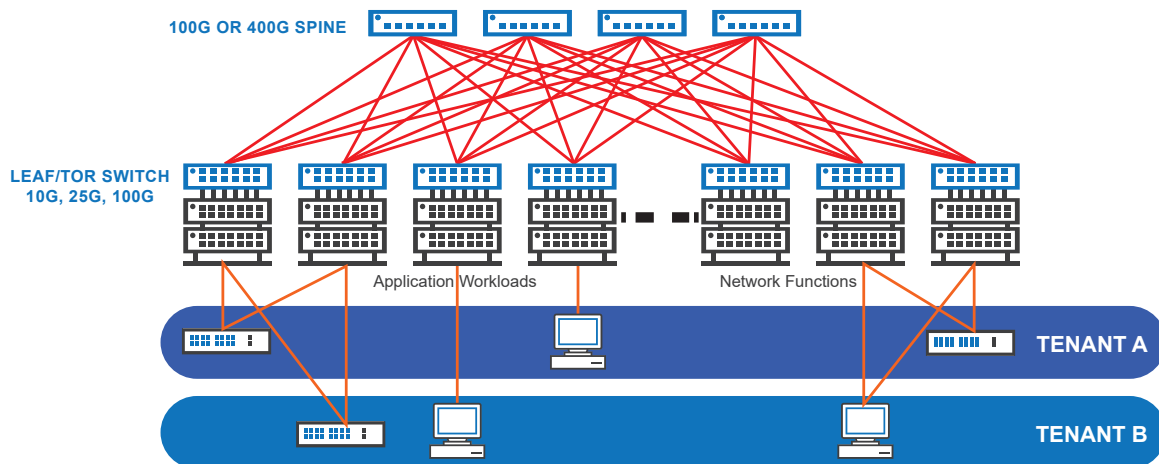|	
Software for Open Networking in the Cloud (SONiC)	Network Software Components
Switch Abstraction Interface (SAI)	H/W Programming Interface
Linux / Open Network Install Environment (ONIE)	Base OS and Installer
Edgecore Hardware	Open Networking Hardware

Supported Platforms

- EPS201/AS4630-54TE
- EPS202/AS4630-54PE
- EPS203/AS4630-54NPE
- DCS201/AS5835-54X
- DCS202/AS5835-54T
- DCS203/AS7326-56X
- DCS204/AS7726-32X

- DCS208/AS5812-54X
- DCS240*/AS9726-32DB
- DCS500/AS7816-64X
- DCS501/AS7712-32X
- DCS510/AS9716-32D
- DCS800/Wedge100BF-32X
- DCS801/Wedge100BF-32QS

- DCS802/Wedge100BF-65X
- DCS810/AS9516-32D

*Future support

Scalability & Flexibility

100G OR 400G SPINE

LEAF/TOR SWITCH 10G, 25G, 100G

Application Workloads   Network Functions

TENANT A

TENANT B

Specs

Layer 2
- LAG (LACP)
- LLDP
- MAC Aging
- MC-LAG
- Port Mirroring
- QinQ (802.1Q Tunneling)
- STP/PVST
- TPID Configuration
- VLAN Translation
- VLAN/VLAN Trunk

Layer 3
- BGP
- BGP Graceful Restart
- BGP Graceful Restart Helper
- BGP Multi-protocol
- BGP Unnumbered Links
- Critical Resource Monitoring
- ECMP
- EVPN/VxLAN
- EVPN Multihoming
- IPv6
- IS-IS
- NAT
- OSPF
- Proxy ARP
- Static Anycast Gateway
- VRF
- VxLAN

Management and Monitoring Features
- DHCPv6 Relay
- Dynamic Port Breakout
- Everflow
- Fast Reload
- Kubernets
- Management VRF
- MTU Setting
- NTP
- OpenSSH/SCP/SFTP
- PINS
- Platform Monitoring
- Port Speed Setting
- RoCEv2
- Sensor Transceiver Monitoring
- sFlow
- SNMP
- Telemetry Support
- Thermal Monitor
- Warm Reboot
- Zero Touch Provisioning

QoS
- COS
- DSCP
- ECN
- Priority Flow Control (PFC)
- PFC-WD
- PFC Watermark
- Asymmetric PFC
- WRED
- Ingress ACL-based Mirroring (ERSPAN)
- Egress Port Shaping (port,queue)
- Port Rate Limiting

Security Features
- Ingress/Egress ACL Permit/Deny
- COPP
- TACACS+
- RADIUS

For More Information
Enterprise SONiC Distribution by Edgecore is avilable, for download and use on supported platform without charge, from Edgecore service portal upon registration.

About Edgecore Networks Corporation
Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

*Roadmap - Contact Edgecore for more details
**Specs availability vary by models