

# Open Networking Meets Open Software for Data Center Deployments

## 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 proven software infrastructure that enables customers to build highly portable, scalable data center networks.

## Multiple Merchant Switching Silicon Platforms

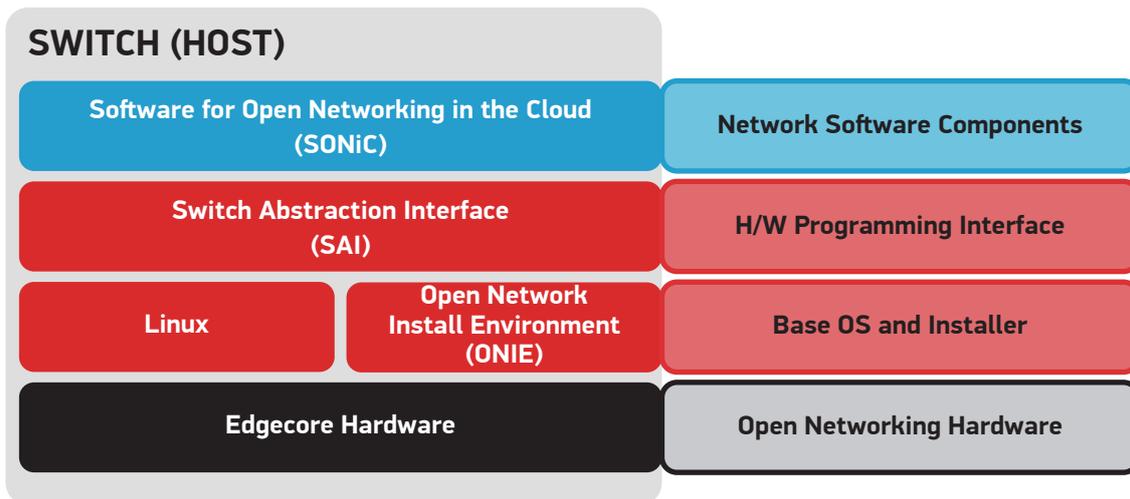
Enterprise SONiC Distribution by Edgecore can run across multiple switch platforms for 1G/10G/25G/100G/400G, including well-known silicon solutions such as Broadcom and Intel. A choice of different silicon designs gives users freedom in their network design.

## The Only Production-Ready and Truly Open SONiC Distribution on the Market

Enterprise SONiC Distribution by Edgecore is built from the 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 the community.

## One-Stop Support for Full Software Stack Plus Hardware

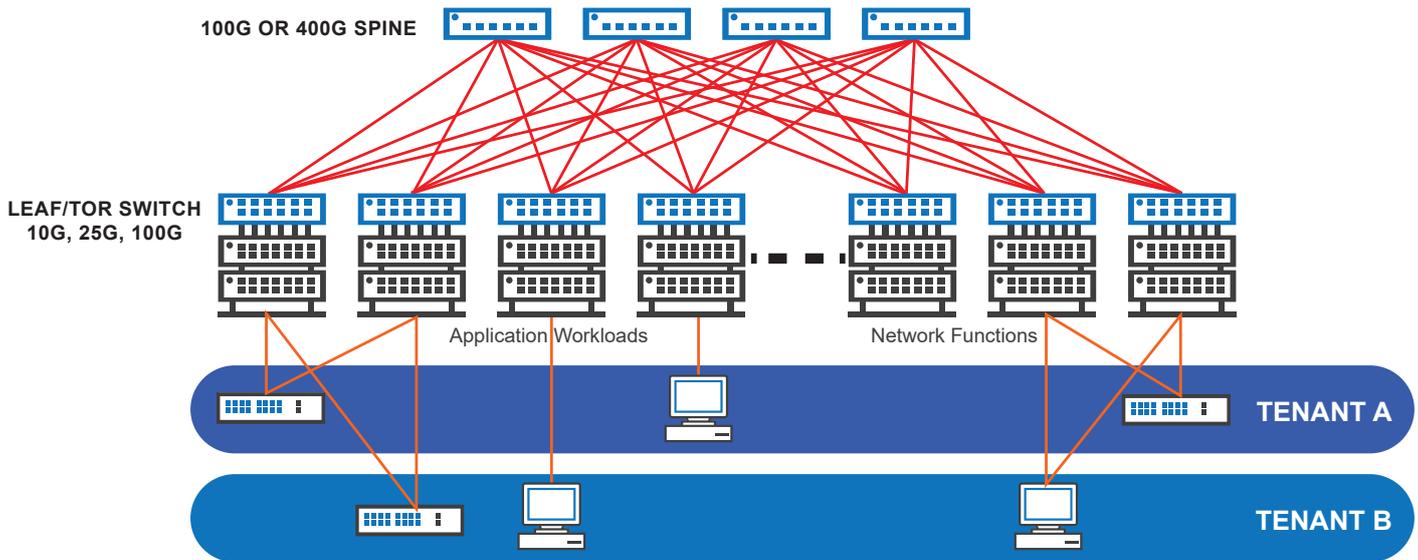
Enterprise SONiC Distribution by Edgecore is validated with a variety of optics and cables delivered from Edgecore as well as industry sources. This ensures that the overall system, switch hardware, firmware, NOS, and connectivity, from drivers to applications, are proven to work together, removing concerns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



## 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
- DCS520/AS9736-64D
- DCS800/Wedge100BF-32X
- DCS801/Wedge100BF-32QS
- DCS802/Wedge100BF-65X
- DCS810/AS9516-32D

# Scalability & Flexibility



## Specifications

### 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

### 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

### Management and Monitoring Features

- CLI/SSH
  - DHCPv6 Relay
  - Dynamic Port Breakout
  - Everflow
  - Fast Reload
  - Kubernetes
  - Management VRF
  - MTU Setting
  - NTP
  - OpenSSH/SCP/SFTP
  - PINS
  - Platform Monitoring
  - Port Speed Setting
  - RoCEv2
  - Sensor Transceiver Monitoring
  - sFlow
  - SNMP/SNMPv2
  - Telemetry Support
  - Thermal Monitor
  - Warm Reboot
  - Zero Touch Provisioning
- \*Roadmap - Contact Edgecore for more details  
 \*\*Specs availability varies by model

### Security Features

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

## Standards Compliance

- RFC792 ICMP Specifications
- RFC1157 Simple Network Management Protocol (SNMP)
- RFC1213 MIB-II Specifications
- RFC1213 Management Information Base for Network Management of TCP/IP-based internets: MIB-II
- RFC1267 Border Gateway Protocol 3 (BGP-3)
- RFC1771 A Border Gateway Protocol 4 (BGP-4)
- RFC1772 Application of the Border Gateway Protocol in the Internet
- RFC1901 Introduction to Community-based SNMPv2
- RFC1902 Structure of Management Information for Version 2 of the Simple Network Management Protocol (SNMPv2)
- RFC1905 Protocol Operations for Version 2 of the Simple Network Management Protocol (SNMPv2)
- RFC1907 SNMP MIB Specifications
- RFC1965 AS Confederations for BGP
- RFC1966 BGP Specifications
- RFC1981 Path MTU Discovery for IP version 6
- RFC1997 BGP Communities Attribute
- RFC2011 IP MIB Specifications
- RFC2012 Management Information Base for the Transmission Control Protocol (TCP)
- RFC2013 SNMPv2 Management Information Base for the User Datagram Protocol using SMIv2
- RFC2068 HTTP Specifications
- RFC2101 IPv4 Address Behaviour Today
- RFC2138 RADIUS Specifications
- RFC2270 Using a Dedicated AS for Sites Homed to a Single Provider
- RFC2283 Multiprotocol Extensions for BGP-4
- RFC2328 OSPF Specifications
- RFC2370 OSPF Opaque LSA Option Specifications
- RFC2373 IP Version 6 Addressing Architecture
- RFC2374 An IPv6 Aggregately Global Unicast Address Format
- RFC4760 Multiprotocol Extensions for BGP-4
- RFC7348 Virtual eXtensible Local Area Network (VXLAN): A Framework for Overlaying Virtualized Layer 2 Networks over Layer 3 Networks
- IEEE802.1D Spanning Tree Protocol
- IEEE802.1p Priority tagging implementation idea
- IEEE802.1AB Link Layer Discovery Protocol
- IEEE802.1ad QinQ, VLAN Stacking
- IEEE802.3ad Link aggregation (LAG), bound mode 4 (LACP)

## For More Information

Enterprise SONiC Distribution by Edgecore is available for download and use on supported platforms without charge from the 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](http://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.

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