

# Προ SONiC

1st Dec 2022

# О компании



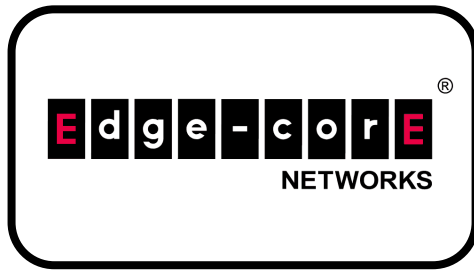
*CHINA JOYTECH  
19 скоростных SMT  
20 линий сборки*



*TAIWAN  
FACTORY  
5 скоростных  
SMT  
8 линий сборки*



*IPO на Тайване с  
1995  
Инженерные  
ресурсы  
Аппаратный  
дизайн  
Работа с OEM:  
Juniper, HP, Arista*



*Продуктовые линейки  
коммутаторов  
Развитие новых платформ  
Продажи / проекты*



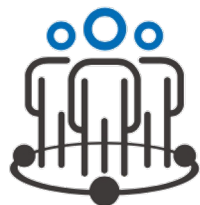
*Продуктовые линейки V-BAND  
60ГГц  
Развитие новых V-BAND продуктов  
Продажи / проекты*

# Про SONiC

Edgecore SONiC это настоящий opensource, поддерживается в виде дистрибутива



Открытость /  
совместимость



Развитие в  
комьюнити



Выбор  
конфигураций



Безопасность /  
доступность  
исходников

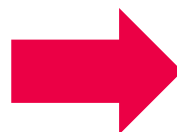


Сборки  
свободно  
выложены на  
портале

## Требования индустрии



- Простота развертывания
- Наличие поддержки
- Предсказуемый Roadmap
- Протестированное решение



Возможность быстрого  
развертывания, проверенного  
решения для датацентров

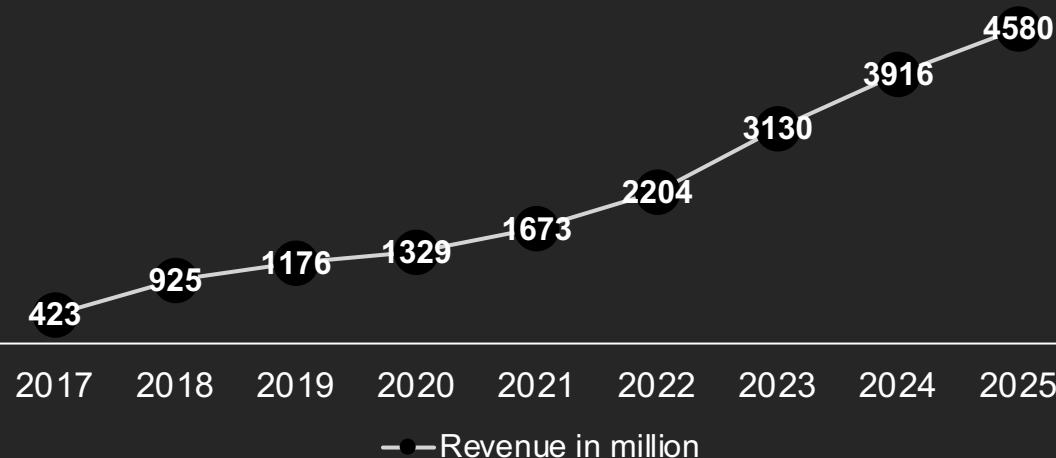
# Market Trend

650 Group expect the market for SONiC market to grow substantially during the next several years.

Source:

[https://credosemi.com/wp-content/uploads/2021/11/650GroupMIR2207\\_SONIC\\_REPORT\\_2021.pdf](https://credosemi.com/wp-content/uploads/2021/11/650GroupMIR2207_SONIC_REPORT_2021.pdf)

## SONiC Market Forecast

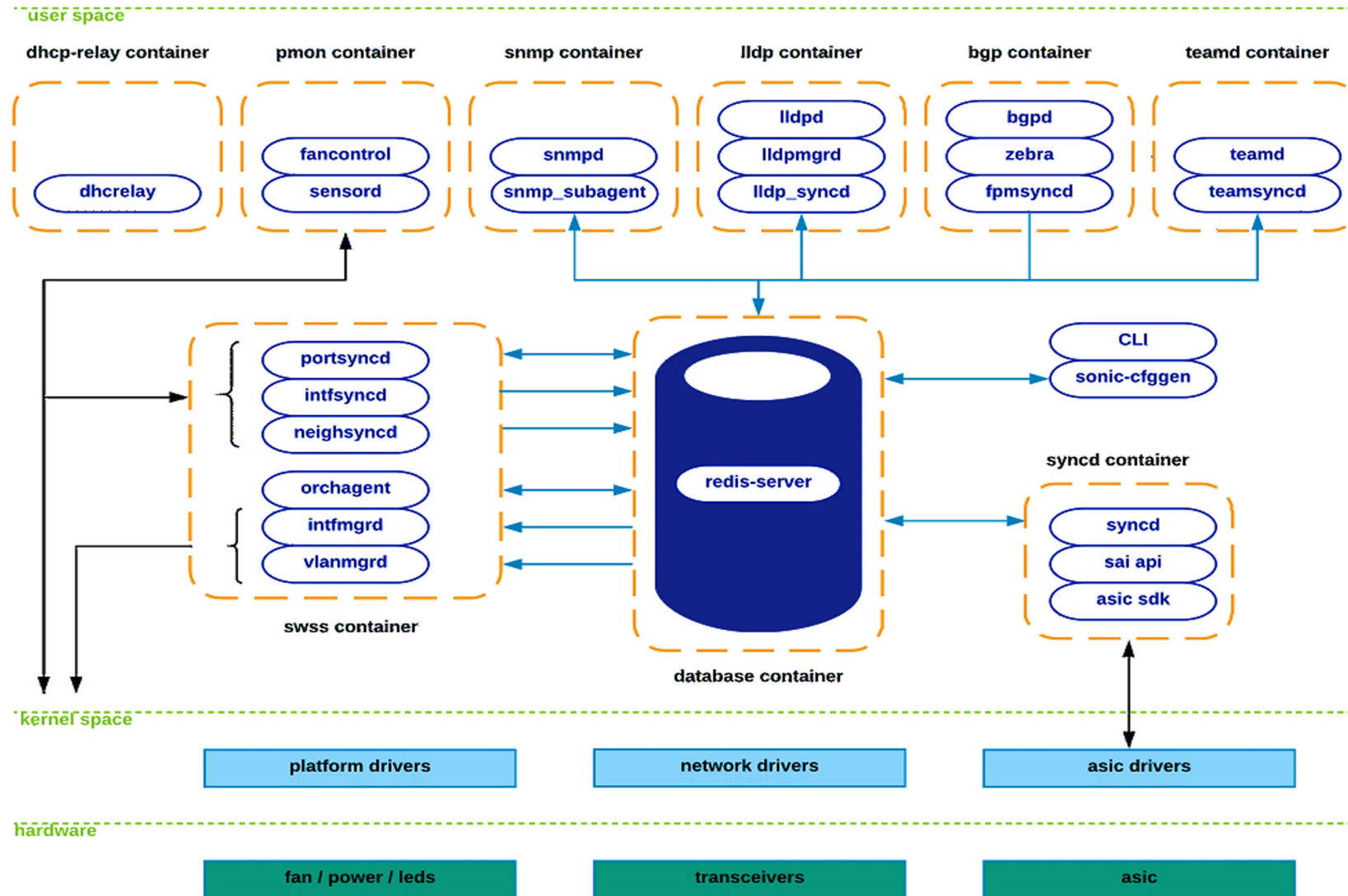


## SONiC Market Forecast by Customer Type

	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>US Top 5 Cloud Providers</b>	\$328	\$711	\$683	\$535	\$618	\$829	\$1,170	\$1,374	\$1,441
<b>Chinese Top 3 Providers</b>	\$96	\$214	\$323	\$438	\$581	\$747	\$1,050	\$1,345	\$1,649
<b>Rest of Cloud</b>	\$0	\$0	\$72	\$160	\$211	\$269	\$375	\$477	\$634
<b>Telco Cloud</b>	\$0	\$0	\$5	\$5	\$8	\$23	\$51	\$87	\$118
<b>Hybrid Enterprise</b>	\$0	\$0	\$92	\$190	\$256	\$336	\$484	\$633	\$738
<b>Total</b>	\$423	\$925	\$1,176	\$1,329	\$1,673	\$2,204	\$3,130	\$3,916	\$4,580

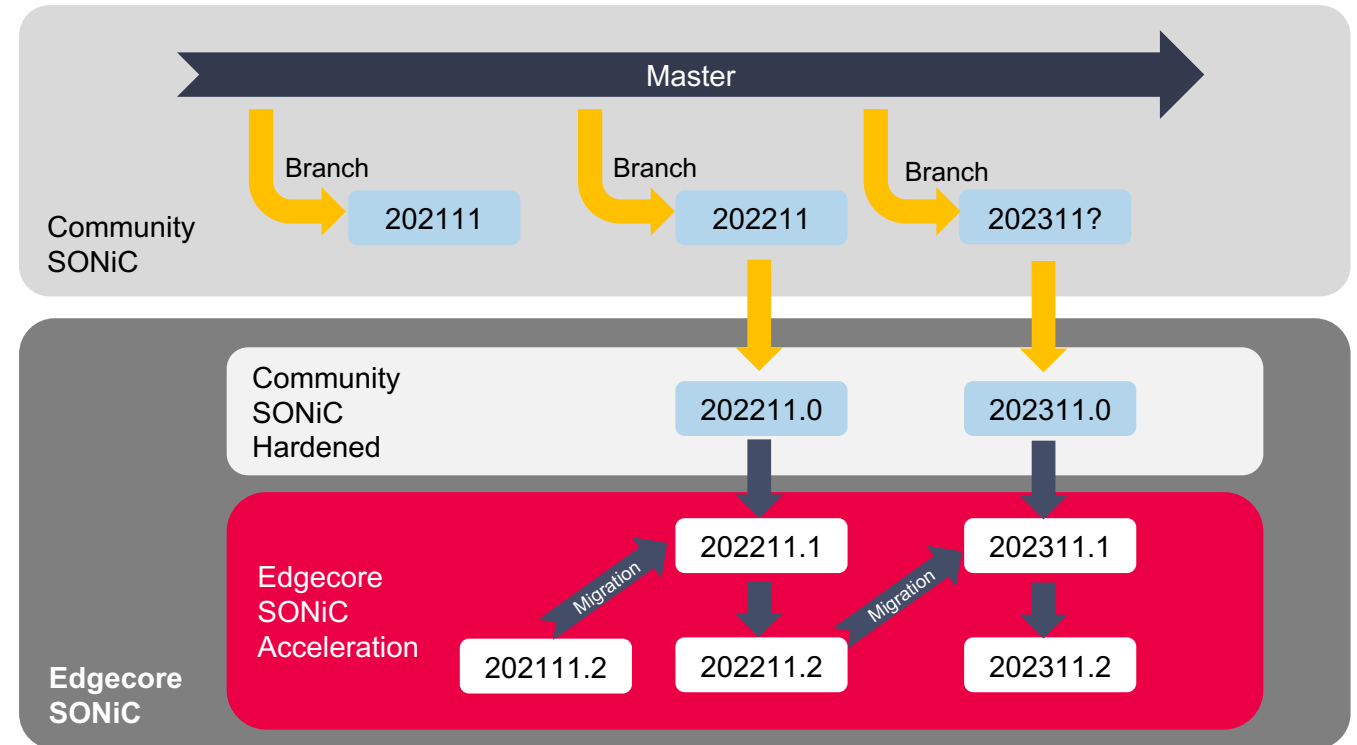
\*Revenue in Millions

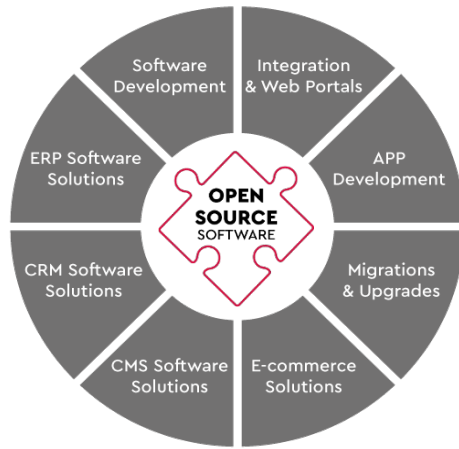
# Архитектура SONiC



# Community SONiC vs EC SONiC

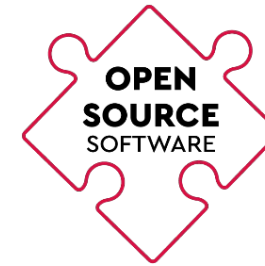
- Системная доработка Community SONiC до EC SONiC
  - Оптимизация работы на платформах EC
  - Миграция функционала из роадмапа
- Edgесore оставляет функцию из комьюнити если она работает лучше адаптированной версии.





Open Source + Customizations + Accelerations

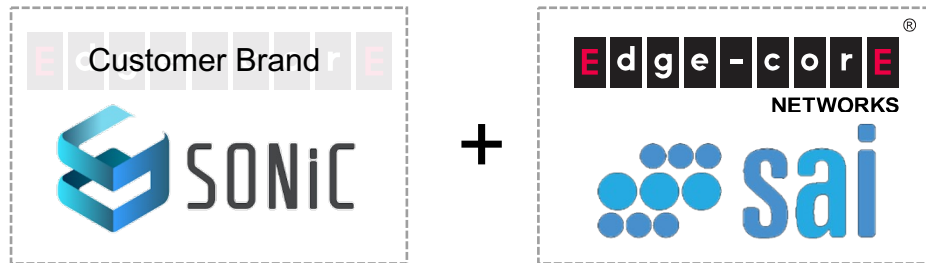
- Target Customers: need additional features



Hardened Pure Open Source with ecSAI

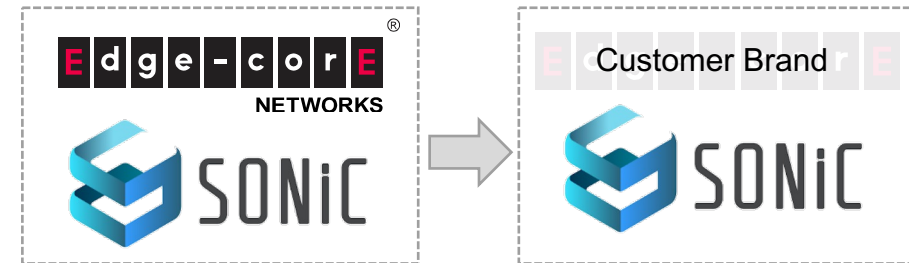
- Target Customers: “No Vendor Lock-in”

## Гибкие Бизнес Модели



Customer-owned SONiC + ecSAI

- Target Customers: capable and want to develop their own SONiC



Sub-license

- Target Customers: 3<sup>rd</sup> parties to bundle with their apps and rebrand

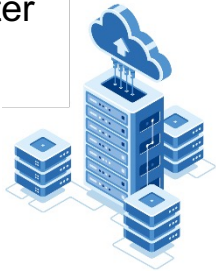
## Use Case

## Speed of Switch

## Applied Features

## Edgecore Models

### Data Center



10G/25G/100G

- Clos (ToR/leaf/spine) architecture
- EVPN/VxLAN, SAG, MCLAG

- DCS201/202 (10G)
- DCS203 (25G)
- DCS204/DCS500/DCS501 (100G)
- DCS800 Series (100G, P4 Programmable)

### Enterprise



1G/10

- Company Network
  - Manage data plane of servers
  - Provide management network data path for the management servers
- VLAN, LACP, MCLAG

- EPS200 Series (1G)
- DCS201/202 (10G)

### Retail/ Enterprise

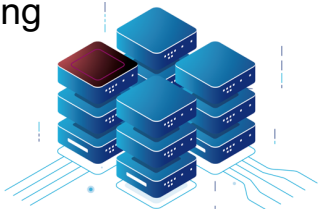


1G (with PoE)

- Connect to company WAN for remote management
- PoE network with Wi-Fi, VoIP phone
- Management VRF, NAT, LACP

- EPS200 Series (1G)

### High Performance Computing



100G/400G

- Full mesh
- EVPN/VxLAN, SAG, DFMA, telemetry
- Programmable fabric

- DCS204/DCS500/DCS501 (100G)
- DCS240/DCS510/DCS520 (400G)
- DCS810 (400G, P4 Programmable)



# Key Features

## Community 202111 + Enhancements

- Layer 2
  - LAG (LACP)
  - LLDP
  - MLAG
  - Port Mirroring
  - Q in Q
  - STP/PVST
  - TPID Configuration
  - VLAN Translation
- QoS
  - COS
  - DSCP
  - ECN
  - PFC (Priority Flow Control)
  - PFC-WD/WM/asymmetric
  - WRED
  - Ingress ACL-based mirroring (ERSPAN)
  - Egress Port Shaping
  - Port Rate Limiting
- Layer 3
  - BGP
  - BGP Graceful Restart (Helper)
  - BGP MP
  - BGP Unnumbered
  - CRM (Critical Resource Management)
  - ECMP
  - EVPN/VxLAN
  - EVPN Multihoming
  - IPv6
  - IS-IS
  - NAT
  - OSPF
  - Proxy ARP
  - SAG (Static Anycast Gateway)
  - VRF / VRF Route Leaking
- Security
  - Ingress/Egress ACL Permit/Deny
  - COPP
  - LDAP
  - Radius
  - TACACS+
- System Management
  - DHCP Relay Agent / DHCPv6 relay
  - Dynamic Port Breakout
  - Everflow
  - Fast Reload
  - Kubernetes
  - Management VRF
  - MTU setting
  - NTP
  - OpenSSH/SCP/SFTP
  - Platform Monitor
  - Port Speed Setting
  - PINS
  - RoCEv2\*
  - Sensor Transceiver Monitoring
  - sFlow
  - SNMP
  - Telemetry Support
  - Thermal Monitor
  - Warm Reboot
  - Zero Touch Provisioning

# Supported Platforms w/certified transceivers, cables

**EPS201**



Broadcom XGS Trident 3.x3  
48 x 1G

**EPS202**



Broadcom XGS Trident 3.x3  
48 x 1G

**EPS203**



Broadcom XGS Trident 3.x3  
36 x 2.5G

**DCS201**



Broadcom XGS Trident 3.x5  
48 x 10G

**DCS202**



Broadcom XGS Trident 3.x5  
48 x 10G

**DCS203**



Broadcom XGS Trident 3.x7  
48 x 25G

**DCS204**



Broadcom XGS Trident 3.x7  
32 x 100G

**DCS208**



Broadcom XGS Trident 2+  
48 x 10G

**DCS240**



Broadcom XGS Trident 4  
32 x 400G

**DCS500**



Broadcom XGS Tomahawk 2  
64 x 100G

**DCS501**



Broadcom XGS Tomahawk  
32 x 100G

**DCS510**



Broadcom XGS Tomahawk 3  
32 x 400G

**DCS800**



Intel Tofino 32D  
32 x 100G

**DCS801**



Intel Tofino 32Q  
32 x 100G

**DCS802**



Intel Tofino 64Q  
65 x 100G

**DCS810**




Intel Tofino 2  
32 x 400G


# СПАСИБО

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