



Ragile company introduction

Open Networking With Vision and Precision





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Who We Are to You

Your navigator and helmsman in open network world

- **An experienced Open Network solution expert**
Offers most suitable solutions that help you quickly build open network
- **A California-born, globalized Open Network Builder**

Provides reliable products and prompt service through global supply chain and sites



Headquartered in
Bay Area



R&D team with more than 20
years' experience



Global supply chain and
manufacturing



Ragile Networks INC.

Building Open Network
with **Vision** and **Precision**

RAGILE

Building Next-Generation Open Network

The Pioneer on New Brite Box Switches

Harnessing the open data center network trends

- Actively participate in communities like OCP, SONiC, COBO, Open19, ONF etc.
- Carrying forward the continuous evolution of open network, including:
 - Architecture evolution: from 25G/50G/100G to 200G/400G/800G
 - SerDes evolution: from 28G/56G to 112G
 - Silicon optical evolution: COBO/CPO

Providing networking solutions For cloud native / bare metal cloud:

- Hyper-scaling and high performance CLOS network based on brite box+SONiC
- End-to-end intelligent network based on SmartNIC and SmartTOR



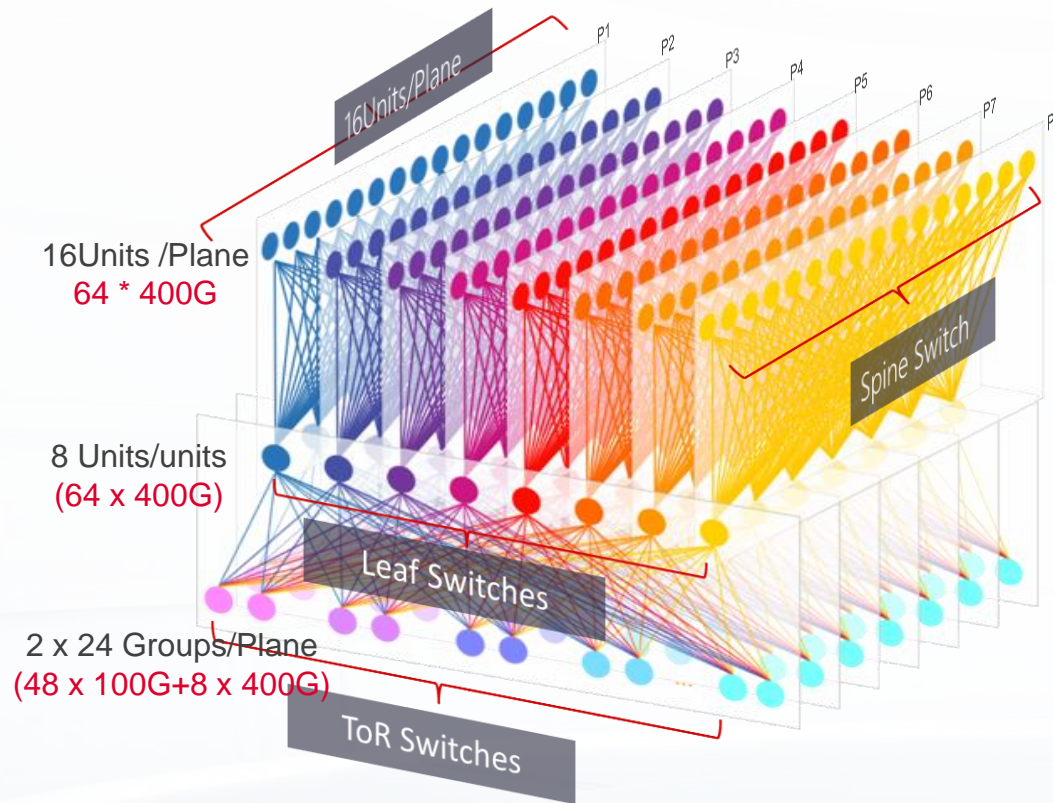
SmartNIC



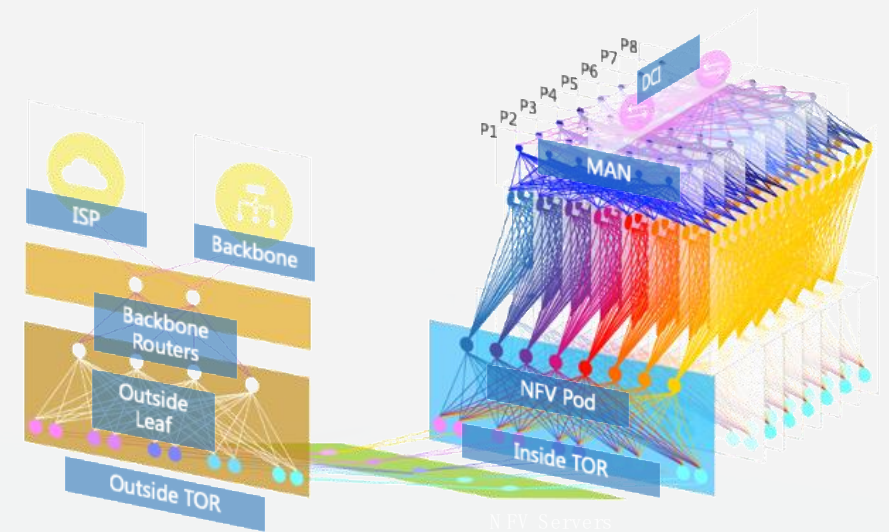
Switch



Build open network with single chip box + multi-plane



- Build high performance 400G CLOS network based on next-gen switch chipsets
- Build unified and open data center based on SONiC



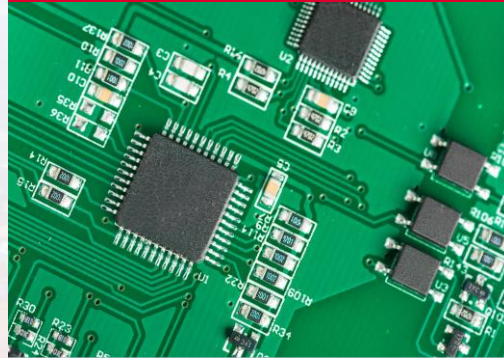
Your benefits from our data center network solution

Smooth hyper scaling



- Each PoD server 1K+/2K
- Single cluster server 4.8W+/9.6W

High performance



- Upload speed: 200Gbps per server
- 6.4Tbps per rack
- 51.2Tbps per POD

Your Unified NOS



- Unified NOS based on SONiC
- Unified maintenance
- Quick evolution based on your own NOS

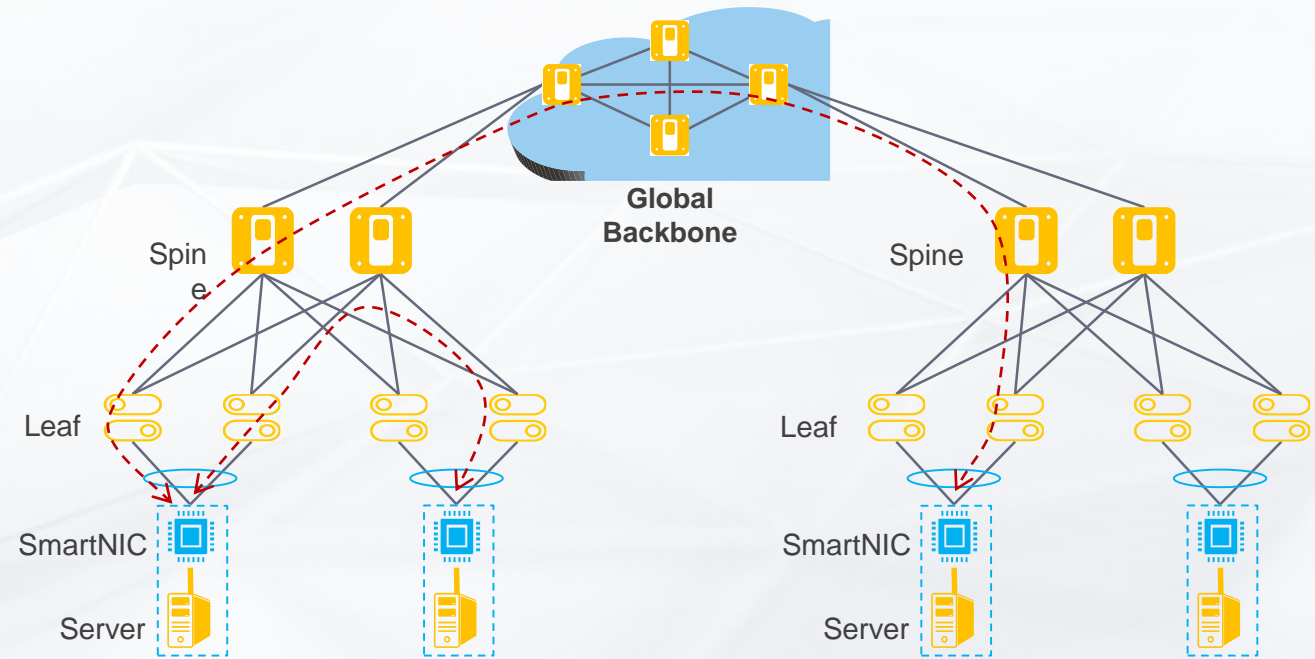
Lower Cost



- Hardware cost
- Technical cost
- Electricity/space cost

Building Guaranteed SLA Based on End-to-end Quality Data at Global View

- Based on SmartNIC, this solution provides the offload of network, storage and security for cloud-native business, thereby saving server's CPU resource, and increasing resource utilization efficiency.
- For delay-sensitive services such as storage, SmartNIC can realize the end-network coaction with switches, and achieve higher performance through end-to-end advanced flow control algorithm
- Based on the programmability of SmartNIC, it realizes flexible capability expansion for cloud-native business and enhances business flexibility.

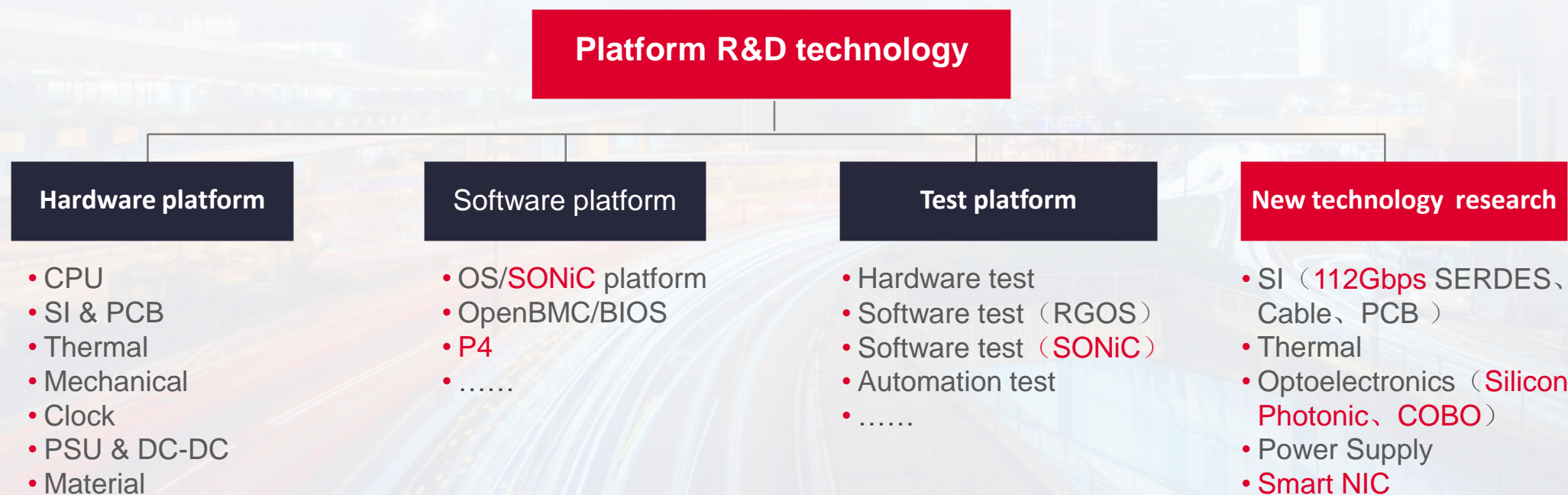


In order to better serve you, we are fully prepared















































Advanced platform technology

- Technical pre-research on key areas (SI, Thermal, Optics) , **2~3 years** in advance
- Realized **modularization** of product design (COMe, Power etc.), to accelerate product iteration
- **Pre-research** on advanced product technologies via cooperation with customers and suppliers



Global Supply Chain

- **Broadcom's tier 1** client: collaboration over **10** years
- Strategic partnership with **Intel** and **TI**: effective technical support, optimal BOM cost and secured component supply.
- **MOU** with key component suppliers: e.g., Broadcom, **6-month** forecast to ensure supply capacity

Global manufacturing to ensure large-scale and reliable delivery

- For ToR products, monthly production capacity of **13,000 to 15,000** units
- Under 3 to 5 months Forecast, order to delivery within **3 weeks**
- Out of forecast demand, order to delivery lead time **2 to 3 months**



Global service system

7*24 Technical Service Capability

- Spare parts & staff can arrive at customer's site in 4 hours for 24/7 in more than 50 countries and regions around the world
- Global 1+7 technical support center, with L1-L3 four-layer architecture, covering major countries/regions

Plenty Value-added Service Options

- Provides value-added service and products options of different level
- Able to provide service productization and customization according to customer's demand
- Able to provide service that covers the whole product lifetime, including product delivery, construction, operation & maintenance, critical time support, flexible training, etc.



Global Spare Parts Service System

- 7*24 spare parts service support system
- Professional spare part inventory monitoring system and designated asset management personnel
- According to customers' demand, capable to quickly build three-layer spare products/parts warehouse that covers more than 50+ countries, (currently available to Hong Kong, Singapore, Indonesia, Malaysia, Russia, Japan, USA)

Custom Clearance

- Able to clear custom in more than 50 countries/regions
- Able to deliver to major Asian and European countries within one week (necessary qualifications acquired)
- Able to cover the whole custom clearance and tax payments process



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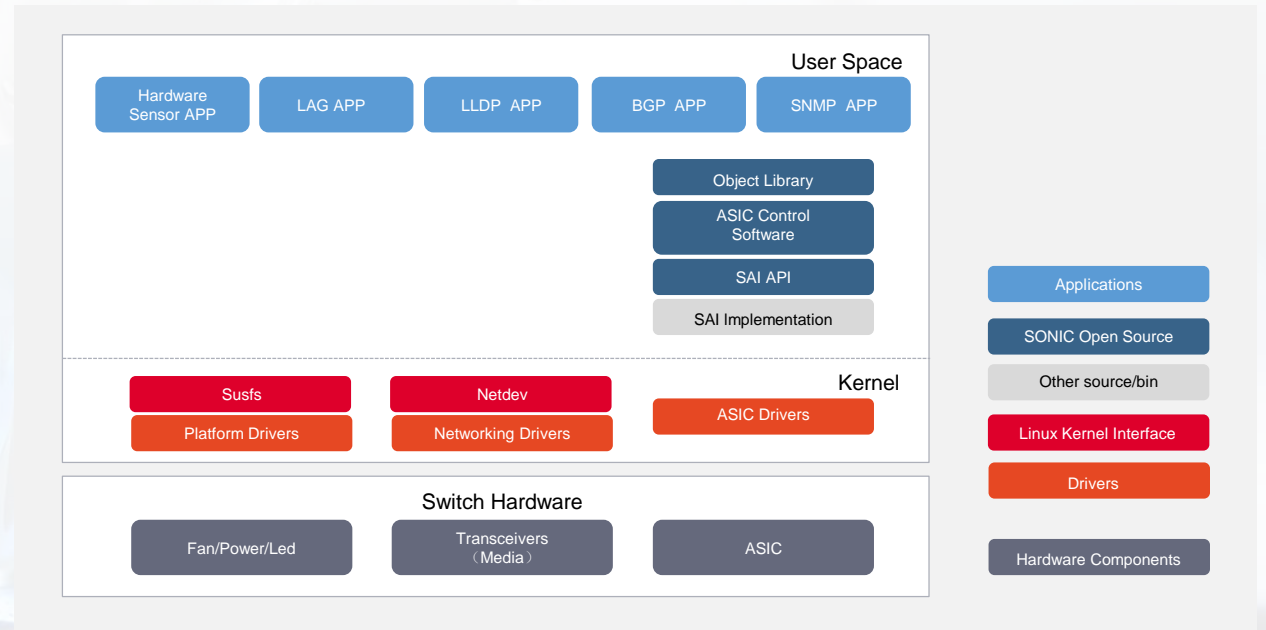
Building Customized SONiC

Not just simple“Open”SONiC

- Provide quality support, continuous iterative SONiC product and service
- Support customer towards self-development on SONiC (open source + Ragile’s service)

Real controllable SONiC

- Self-developed **SCD**, provided to customers as a service together with SONiC
- Don’t rely on chip manufacturer SAI, business risk mitigation and cost reduction



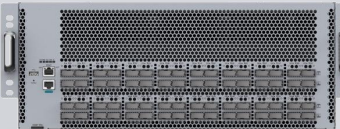
SCD(Switch Chip Driver), complies with the relevant technical standards of SONiC community SAI

Ragile brite box switch family


Customized for Hyperscale Data center, Colocation service provider (SONIC ready)

Brite Box

400G




RA-B6930-64QC/TH4




RA-B6930-32CDQ/TH3

200G

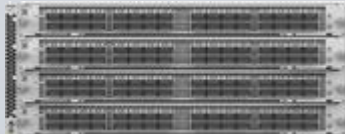


RA-B6930-128DC/TH4




RA-B6520-24DC8QC/TD4


100G




RA-B6920-4S/TH3



RA-B6910-64C/TH2




RA-B6510-32C/TD3




RA-B6520-48C8QC/TD4

50G



RA-B6500-32H/TH (Open19)

25G



RA-B6510-48V8C/TD3

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TD3 switch——With SONiC

RA-B6510-48V8C



Power supplies(1+1)



Fans(3+1) MGMT Console

- MAC: **Trident 3** 2.0 Tbps;
- CPU: **Intel Xeon D-1527**
- Ports: **48 × 25G** (SFP28) + **8 × 100G** (QSFP28) ;
- Power Supply: 1+1 redundant & hot-swappable power ,Max Power 300W;
- Fans: 3+1 redundant & hot-swappable fans;

TD3 switch——With SONiC

RA-B6510-32C

MGMT, Console



Power supplies(1+1)



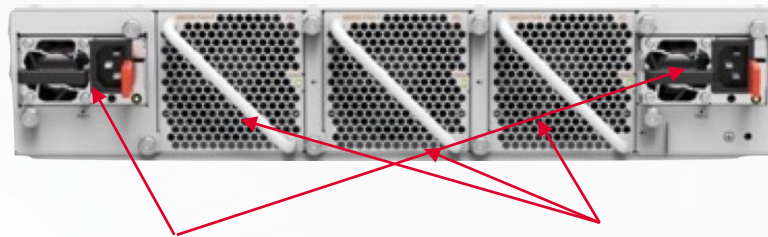
Fans(4+1)



- MAC: **Trident 3** 3.2 Tbps;
- CPU: **Intel Xeon D-1527**;
- Ports: **32 × 100G** (QSFP28) ;
- Power Supply: 1+1 redundant & hot-swappable power ,Max Power 450W;
- Fans: 4+1 redundant & hot-swappable fans;

TH2 switch——With SONiC

RA-B6910-64C



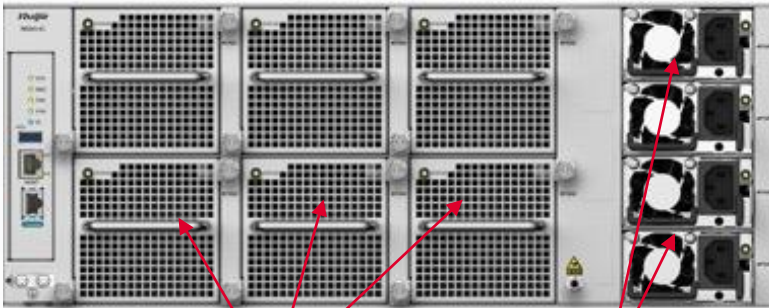
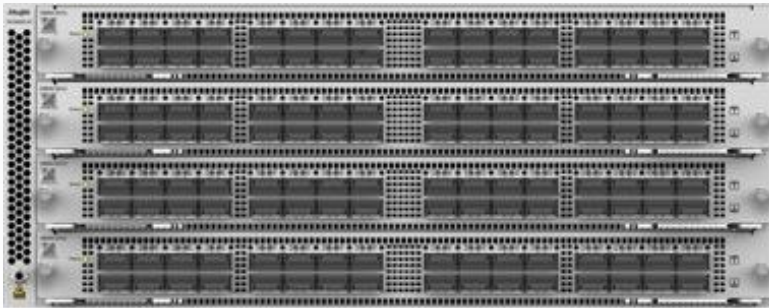
Power supplies(1+1)

Fans(2+1)

- MAC: **Tomahawk2** 6.4 Tbps;
- CPU: **Intel Xeon D-1527**
- Ports: **64 × 100G** (QSFP28) ;
- Power Supply: 1+1 redundant & hot-swappable power ,Max Power 785W;
- Fans: 2+1 redundant & hot-swappable fans;

TH3 switch——With SONiC

RA-B6920-4S



Fans(5+1)

Power supplies(2+2)

- MAC: **Tomahawk3** 12.8 Tbps;
- CPU: **Intel Xeon D-1527**
- Ports: **4 slots** for line-cards
support **128 × 100G** (QSFP28) or
64 × 100G(QSFP28)+ **16 × 400G**(QSFP-DD);
- Power Supply: 2+2 redundant & hot-swappable power
,Max Power 2400W;
- Fans: 5+1 redundant & hot-swappable fans;

TH3 switch——With SONiC

RA-B6920-32QC2X



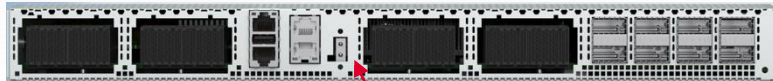
Power supplies(1+1)

Fans(5+1)

- MAC: **Tomahawk3** 12.8 Tbps;
- CPU: **Intel Xeon D-1527**
- Ports: **32 × 400G** (QSFP-DD) + **2 × 10G** (SFP+);
- Power Supply: 1+1 redundant & hot-swappable power ,Max Power 1100W;
- Fans: 5+1 redundant & hot-swappable fans;

TH switch——With SONiC

RA-BS6500-32H (Open19)



Power supplies(1)



Fans(4+1)

- MAC: **Tomahawk**. 3.2 Tbps;
- CPU: **Intel Xeon D-1527**
- Ports: **48 × 50G + 8 × 100G** (QSFP28) ;
- Power Supply: 1 (Power Shelf)
- power ,Max Power 360W;
- Fans: 4+1 redundant & hot-swappable fans;

TH4 switch——With SONiC

RA-B6520-24DC8QC



Power supplies (1+1)

Fans (5+1)

- MAC: **Trident 4** 8.0 Tbps;
- CPU: **Intel Xeon D-1527**
- Ports: **24×200G** (QSFP56) + **8 × 400G** (QSFP-DD) ;
- Power Supply: 1+1 redundant & hot-swappable
- Max Power Consumption 850W;
- Fans: 5+1 redundant & hot-swappable fans;

TH4 switch—With SONiC

RA-B6520-48C8QC



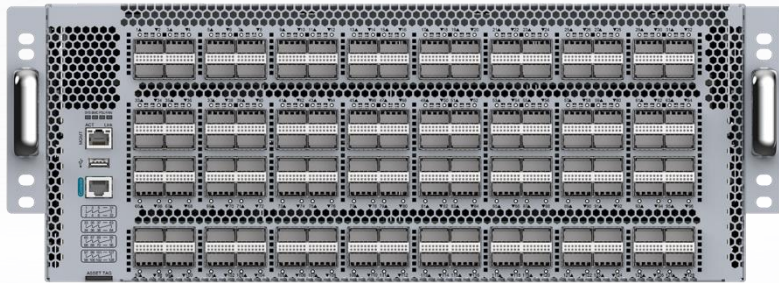
Power supplies (1+1)

Fans (5+1)

- MAC: **Trident 4** 8.0 Tbps;
- CPU: **Intel Xeon D1627**
- Ports: **48×100G** (DSFP) + **8 × 400G** (QSFP-DD) ;
- Power Supply: 1+1 redundant & hot-swappable
- Max Power Consumption 890W;
- Fans: 5+1 redundant & hot-swappable fans;

TH4 switch——With SONiC

RA-B6930-128DC



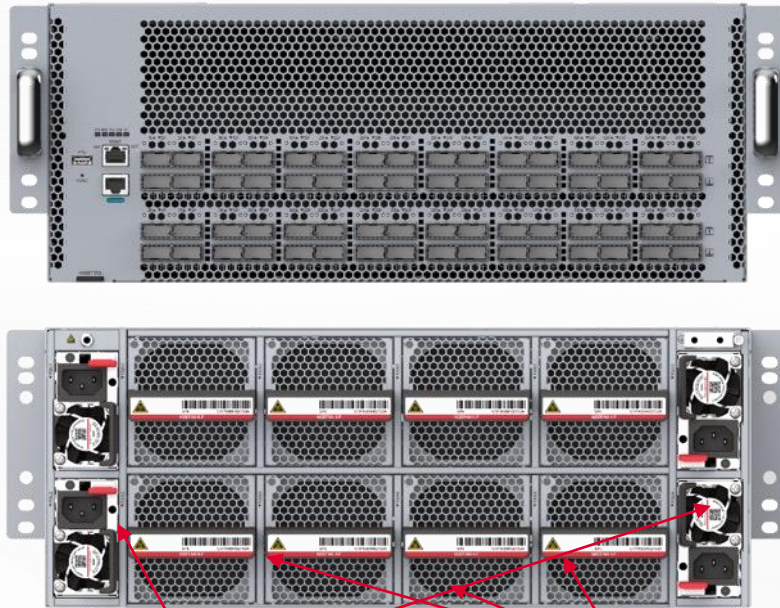
Power supplies (2+2)

Fans (7+1)

- MAC: Tomahawk 4. 25.6 Tbps;
- CPU: Intel Xeon D-1527
- Ports: **128× 200G** (QSFP-DD) ;
- Power Supply: 2+2 redundant & hot-swappable
- Max Power 2600W;
- Fans: 7+1 redundant & hot-swappable fans;

TH4 switch——With SONiC

RA-B6930-64QC



Power supplies (2+2)

Fans (7+1)

- MAC: Tomahawk 4 25.6 Tbps;
- CPU: Intel Xeon D1627
- Ports: **64 × 400G** (QSFP-DD) ;
- Power Supply: 2+2 redundant & hot-swappable
- Max Power 2350W;
- Fans: 7+1 redundant & hot-swappable fans;

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Thank you

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