

**DCN**

**DCN**



# **DCN Product Presentation 2022**

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**03** Introduction to WLAN  
Product Family & Roadmap

**04** DCN Multi-Core Gateway

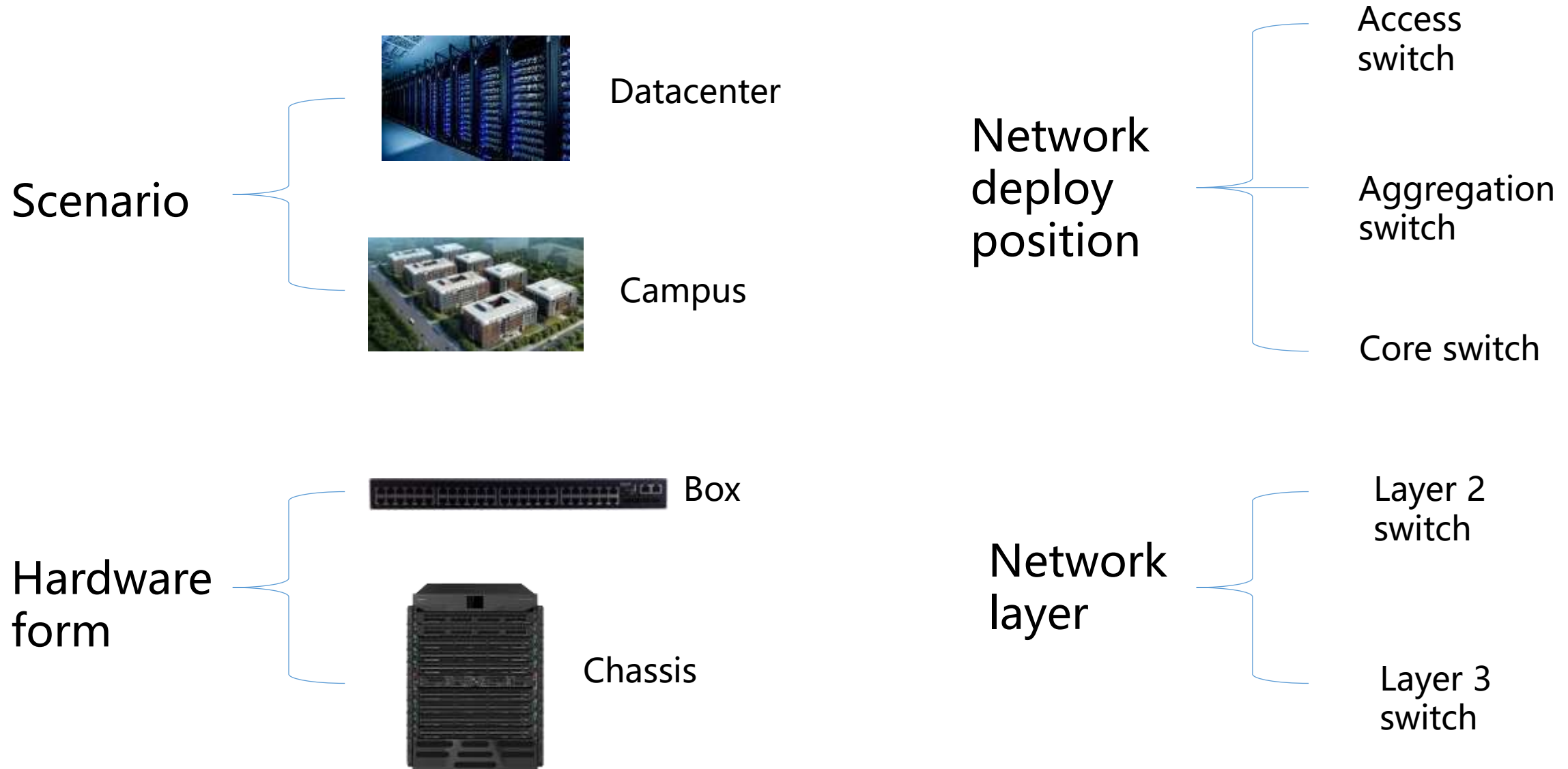
**05** Firewall family

**06** Unified storage products

**01**

# Switch Product Overview

# Switch Classification



# FY22 Ethernet switch product family

## Chassis Switch



CS16909E



DCRS-7608



DCRS-7604

## L3 Switch



CS6200-28X-EI



CS6200-52X-EI



CS6200-8G24S2Q-EI



CS6200-28X-HI-24F



CS6200-28F-EI-R



CS6200-52F-EI



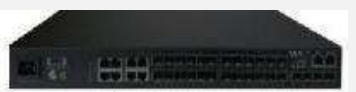
S5750E-28X-SI



S5750E-52X-SI



S5750E-26X-SI



S5750E-28F-SI-D



S5750E-16F-SI-D



S5750E-52F-SI-D

## Data Center Switch



CS6510-48S6Q-HI



CS6580-32CQ-HI



CS6580-48S6CQ-HI

## PoE Switch



CS6200-28X-P-EI



S5750E-52X-P-SI



S4200-10P-PL-SI



S5750M-30X-P-SI



S4600-28P-P-SI



S4600-28X-P-SI



S5750E-28X-P-SI



S4600-10P-P-SI



S4600-12X-P-SI

## L2 GE Switch



S4600-52P-SI



S4600-28X-SI



S4600-28P-SI



S4600-52X-SI



S4600-10P-SI



S4200-10P-SI

# Opportunity—DCN Branding and Position **DCN**

Cost Effective



Performance

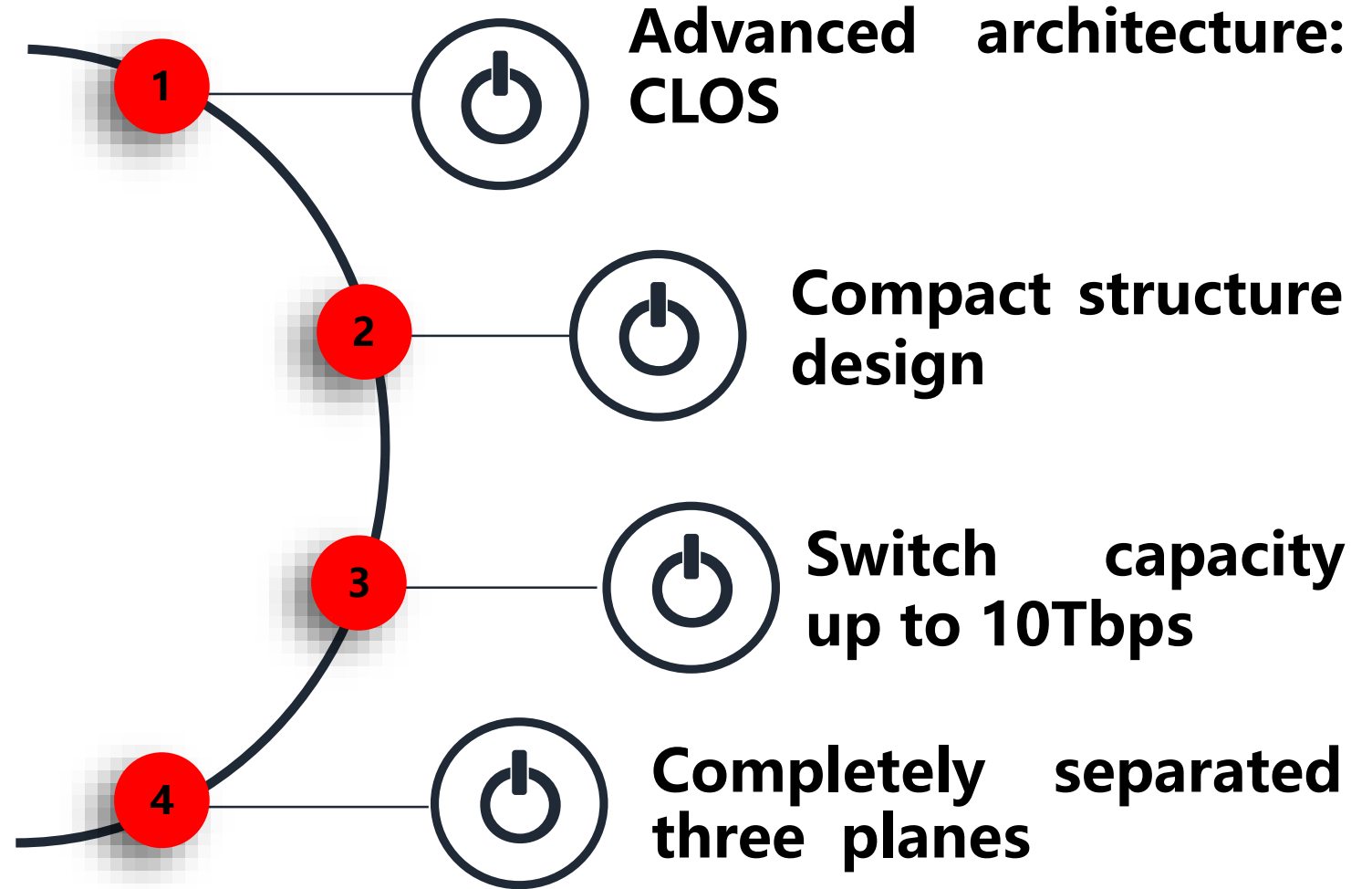
# CS16909E core layer chassis switch



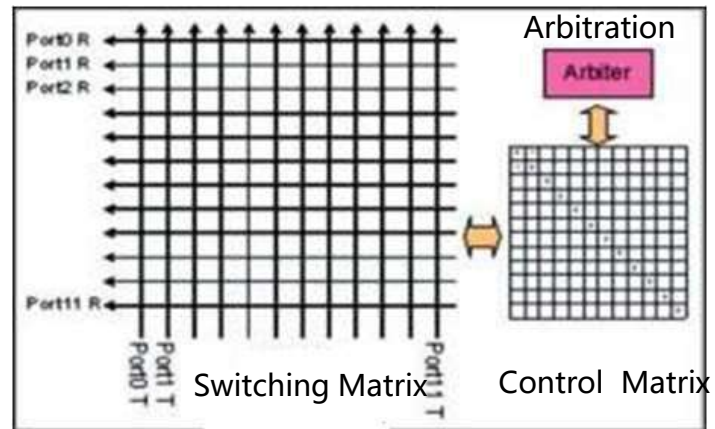
Application: Core switch in data center & enterprise network



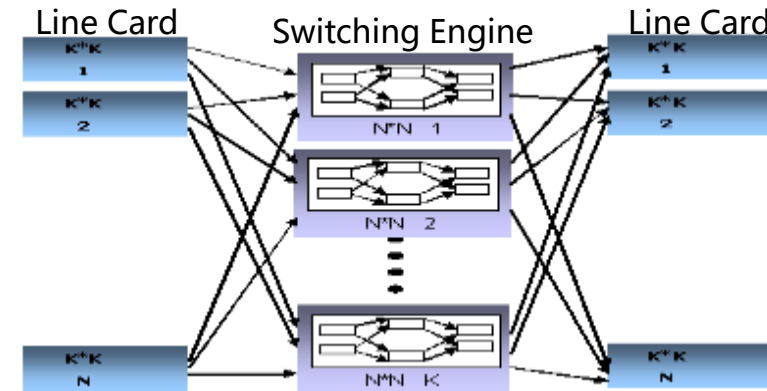
CS16909E



# CS16909E – Advanced CLOS architecture **DCN**



Crossbar

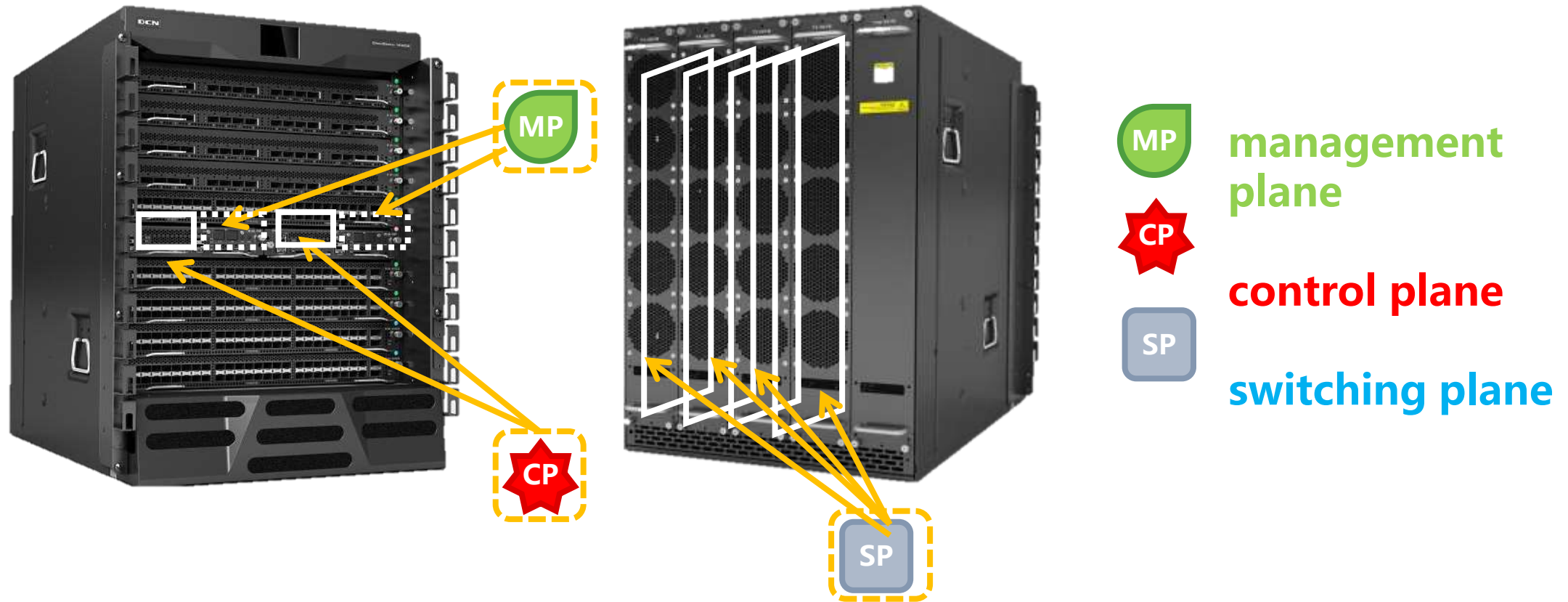


CLOS

	Crossbar	CLOS
Switching and control hardware	Unified / combined	Separate
Performance (Switching capacity)	<1TB	5~10TB or more
Packet drop during engine changing	A few	Zero
Switching cards redundancy	1+1	N+1



# CS16909E - Completely independent planes **DCN**



Independent MP, CP, SP provide more **Reliability**

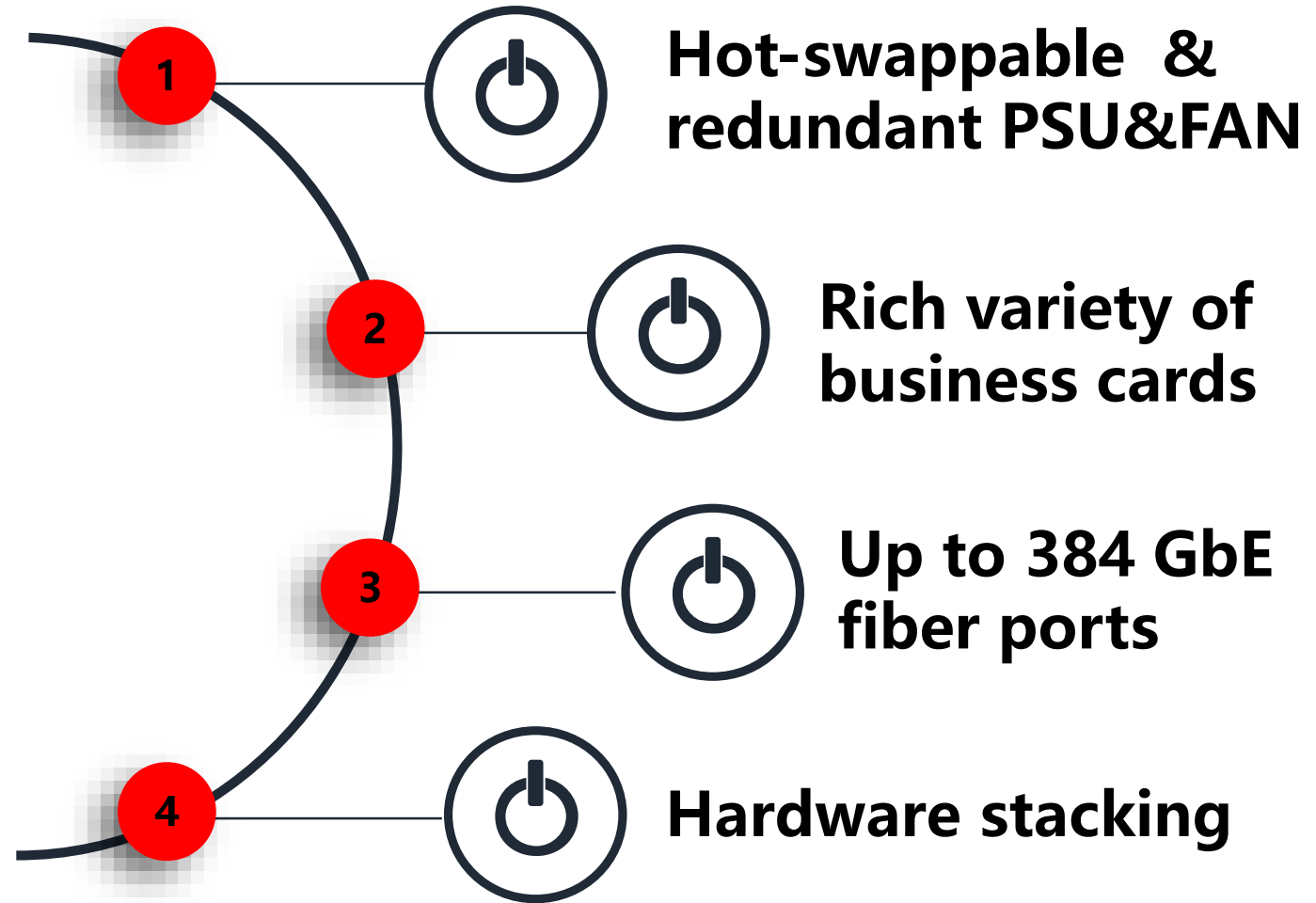
# DCRS-7600E chassis switch



Application: Core / aggregation switch in middle enterprise network

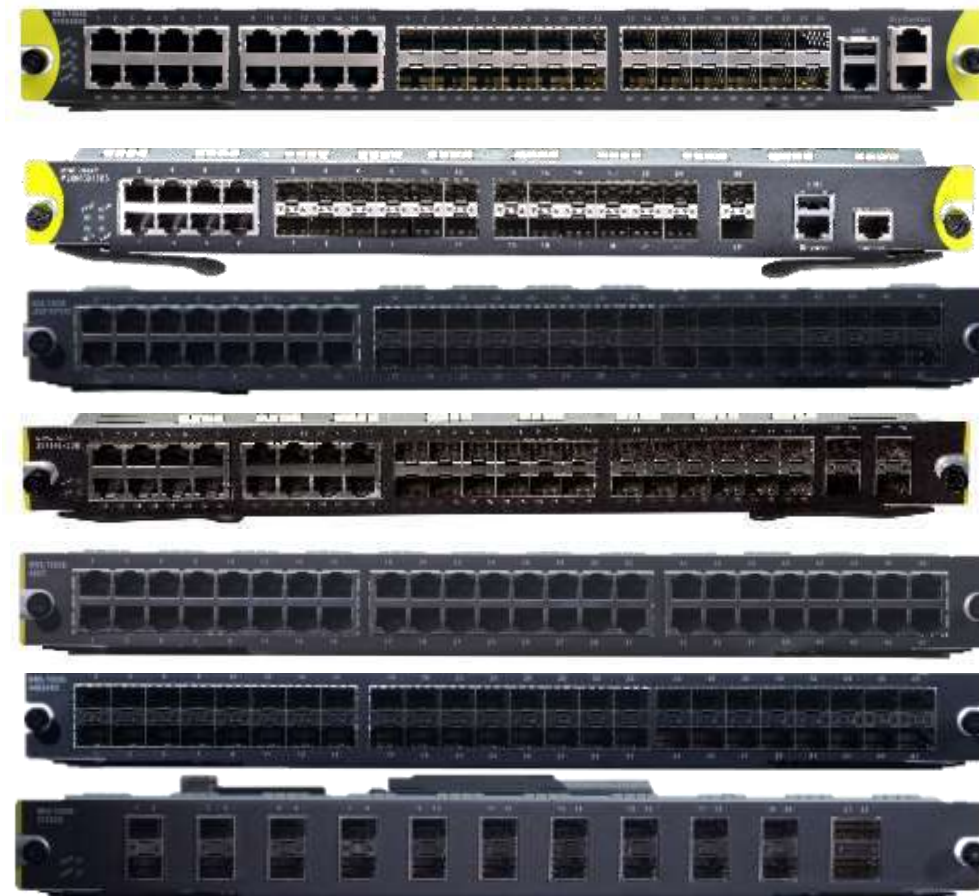


DCRS-7600



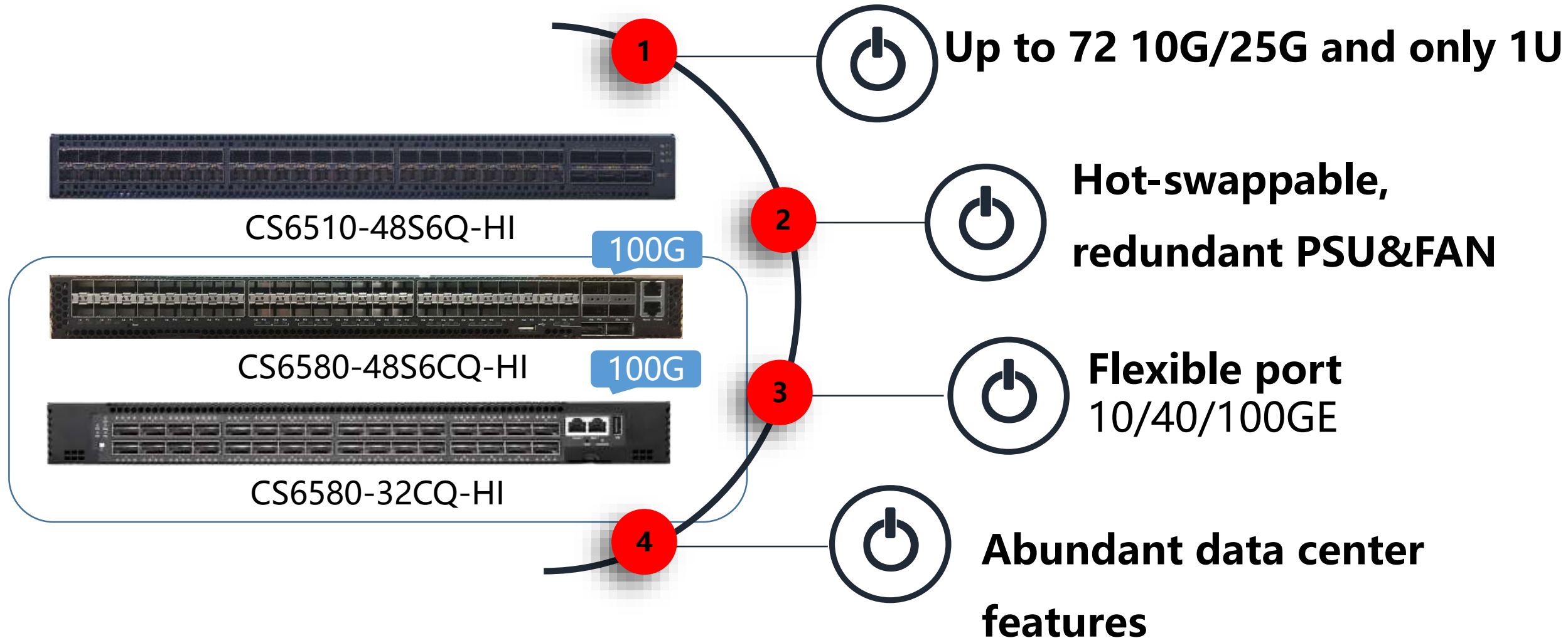
# Abundant business cards for DCRS-7600E

- Rich types of 1G, 10G, fiber and copper modules,
- Up to 384 GE ports per switch
- Up to 224 10GE ports per switch



# Full 25G/10G+40G/100G switch

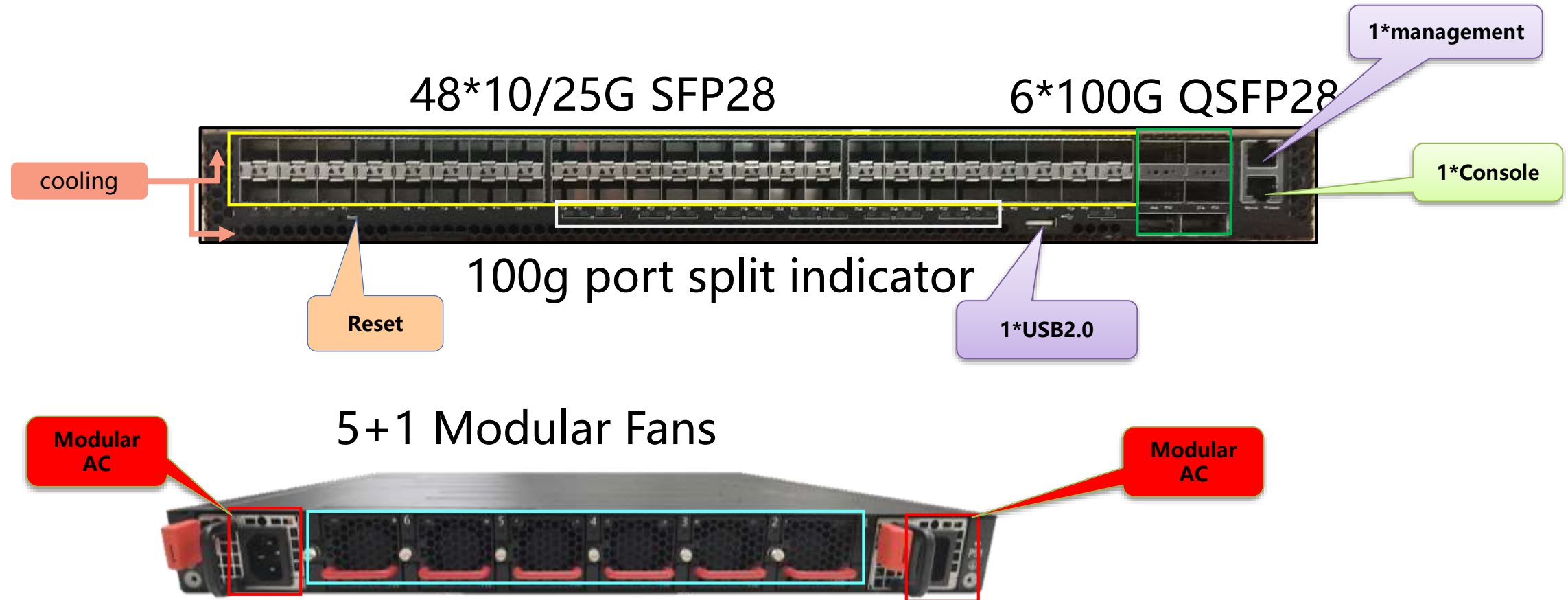
**DCN**



# Interface details



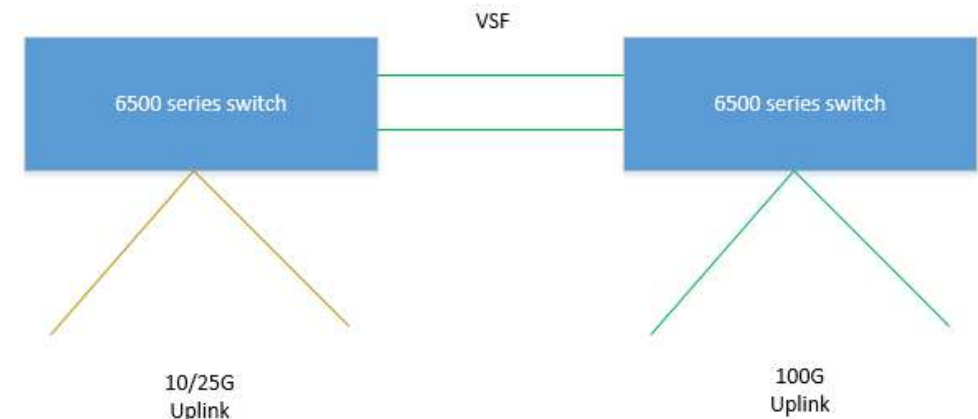
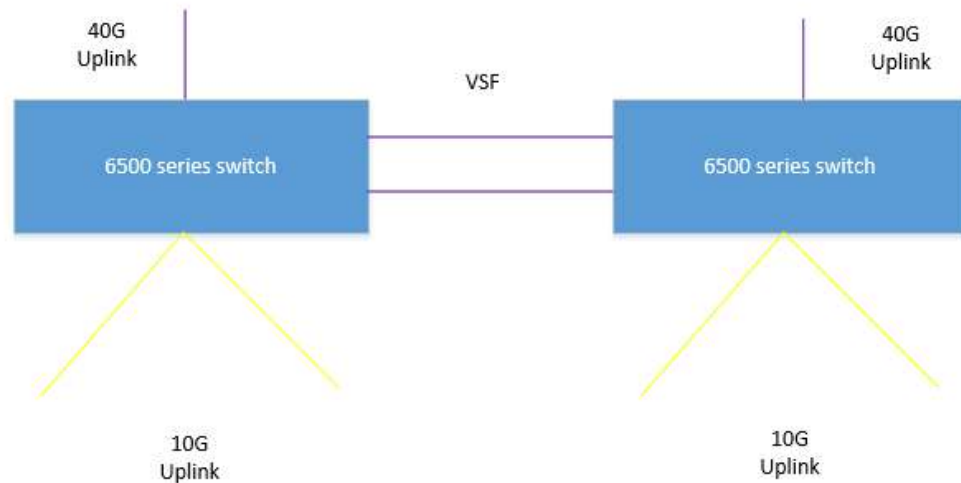
## CS6580-48S6CQ-HI



# Application scenario

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**6500 series is a high-performance high-density switch launched by DCN for the data center**





# New data center features

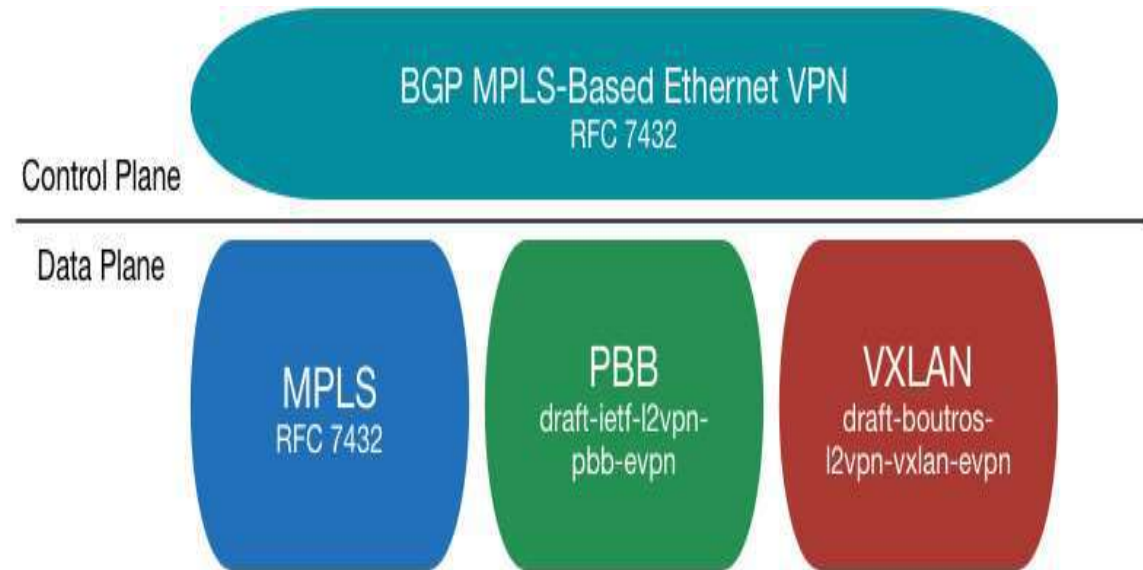


VXLAN	M-LAG	Telemetry	Netconf
<ul style="list-style-type: none"><li>• Static tunnel</li><li>• EVPN</li><li>• L2 gateway</li><li>• L3 gateway</li><li>• DCI*</li></ul>	<ul style="list-style-type: none"><li>• Group member auto-discovery</li><li>• Auto-sync ARP addresses</li><li>• Auto-sync MAC addresses</li><li>• Interactive with STP</li></ul>	<ul style="list-style-type: none"><li>• GRPC</li><li>• CPU &amp; RAM monitoring</li><li>• Interface statistics monitoring</li></ul>	<ul style="list-style-type: none"><li>• SSH access</li><li>• YANG</li><li>• Sysrepo data base</li><li>• VLAN config</li><li>• BGP config</li><li>• Interface statistics</li></ul>

# Data center scenario with VxLAN deployed

EVPN not only inherits the advantages of MP-BGP and VxLAN, but also provides new functions:

- **Simplified auto-configuration**
- **Active and standby backup of multi-homing sites**
- **Separated control plane and data plane**
- **Symmetric IRB (Integrated Bridging and Routing)**

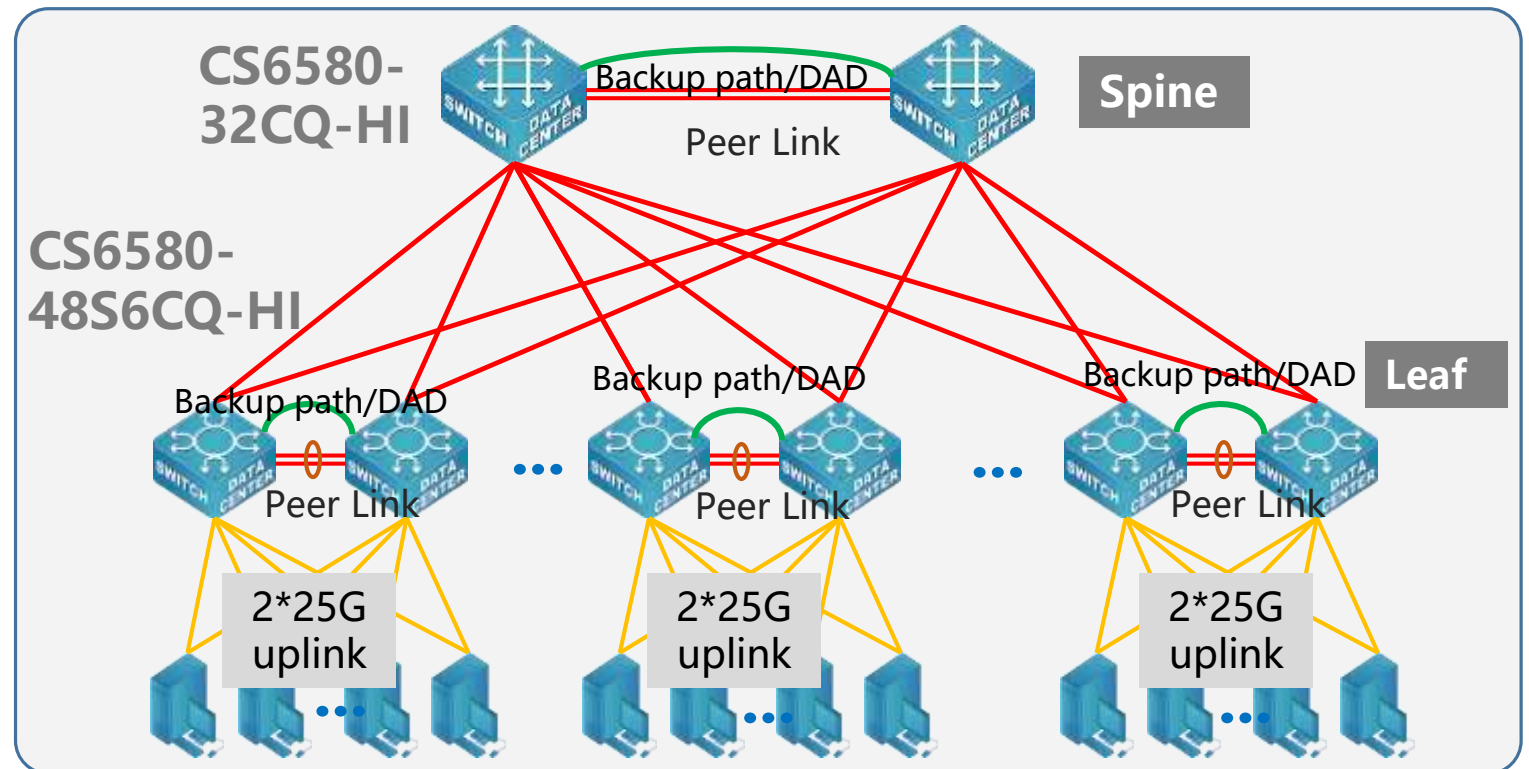




# M-LAG - Multi-chassis Link Aggregation Group

Application: Data centers and campus networks with high efficient and reliable requirements

- Performance double
- All links active
- Multi-chassis link aggregation
- High reliability
- Independent master / backup devices (2 pcs, detect each other)



# Data center TOR

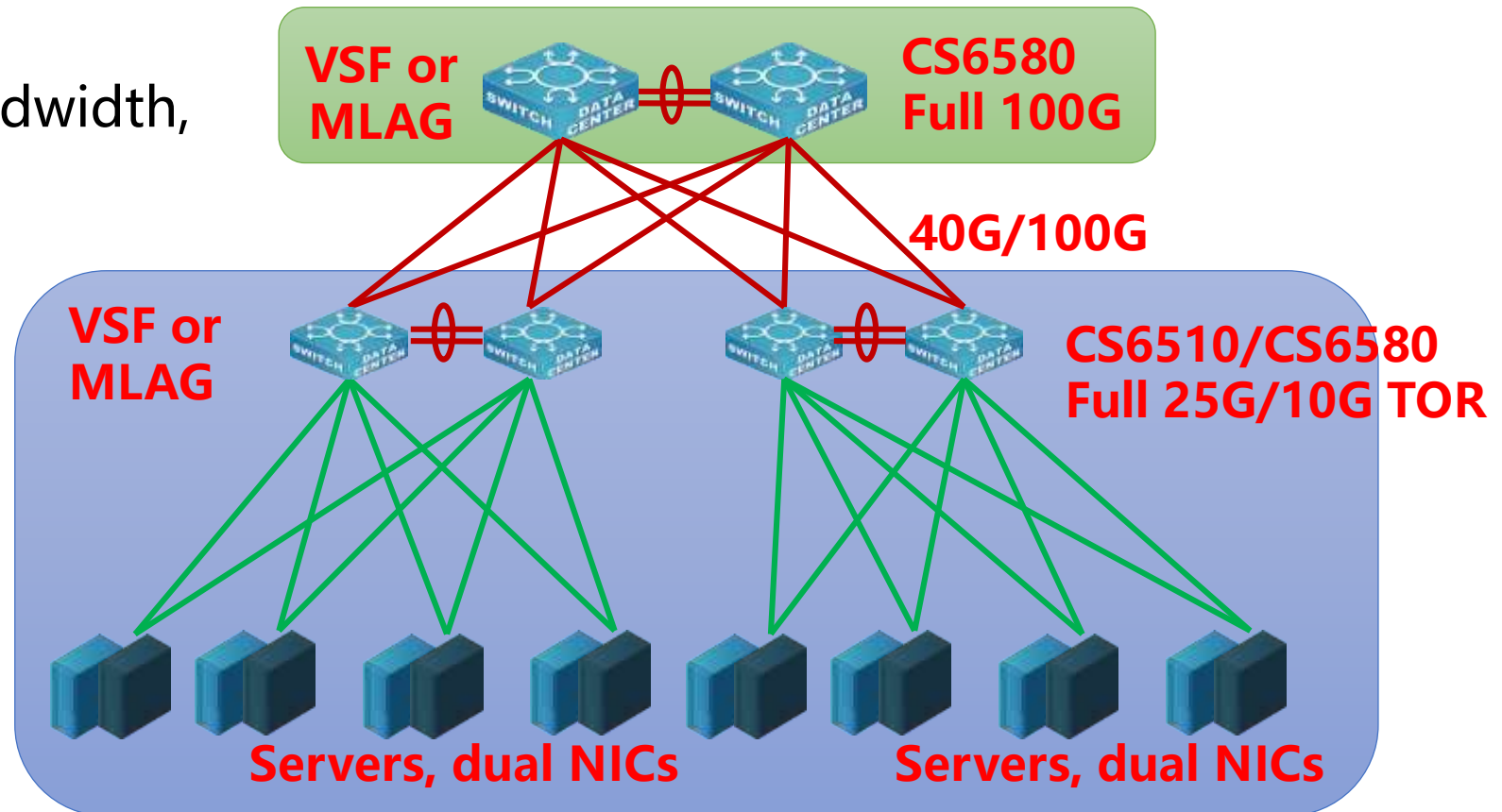
Top of Rack

DCN

Dual homing dual alive

High density of 100G connections

VSF running, High bandwidth,  
High performance



# Competition

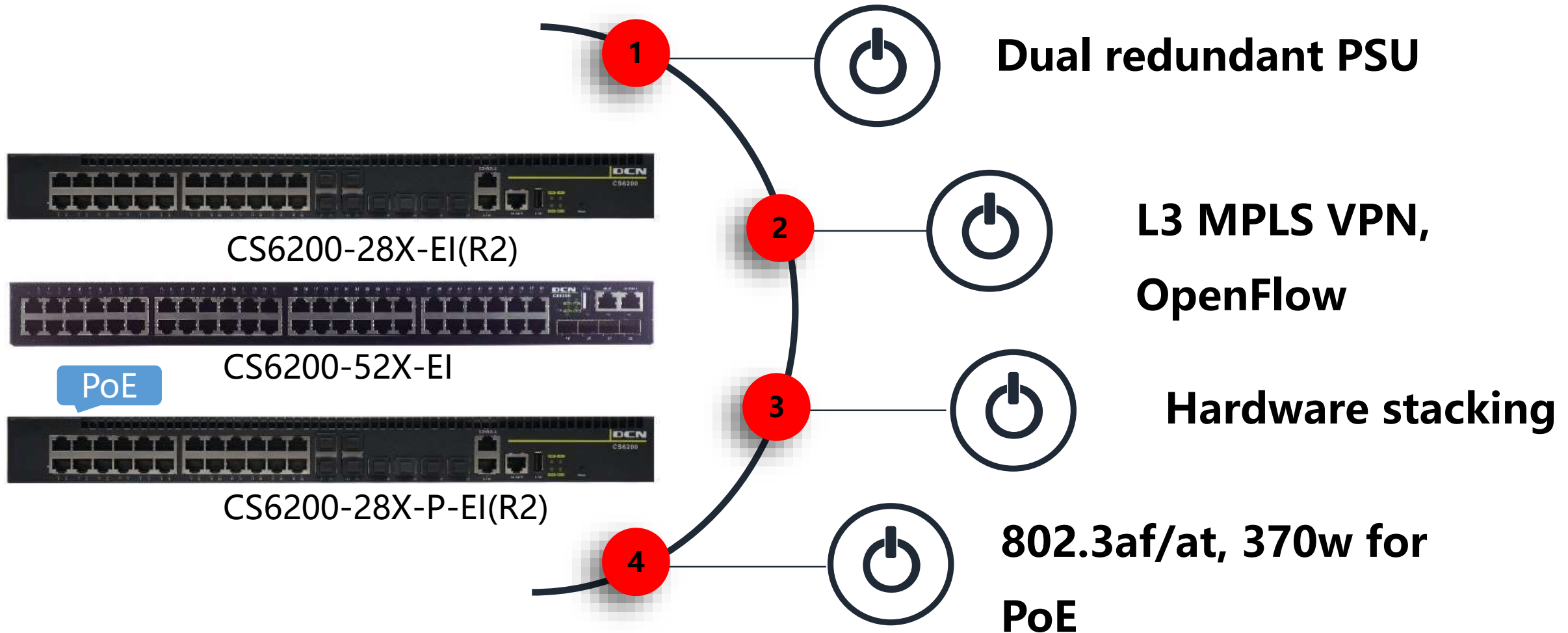
**DCN**

Save 30%-  
50%

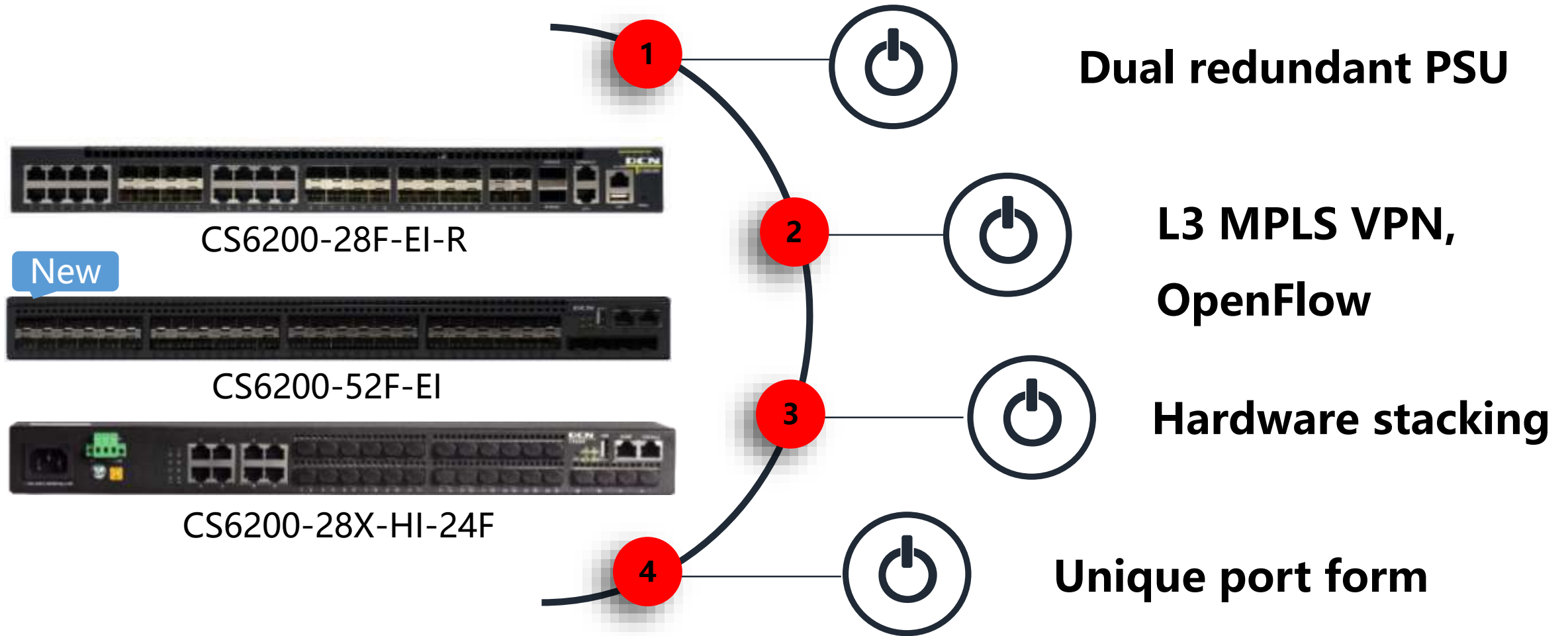
Model name	DCN: CS6580-48S6CQ-HI	HPE:5940 48SFP+ 6QSFP28	Cisco: Nexus 31108PC-V
Ports	48 SFP+ + 6 QSFP28	48 SFP+ + 6 QSFP28	48 SFP+ + 6 QSFP28
PSU	2 power supply slots	2 power supply slots	2 power supply slots
FAN	5+1	2 fan tray slots	3+1
USB	1 USB 2.0	1 USB 2.0	1 USB 2.0
console	RJ45	RJ45, Mini USB	RJ45
Management interface	10/100/1000M	10/100/1000M, 1 SFP GbE	10/100/1000M
Operating temperature	0°C ~ 45°C	0°C to 45°C	0°C to 40°C
Forwarding rate	2678Mpps	1607Mpps	1200Mpps

# L3+ GE+10G copper switch

**DCN**



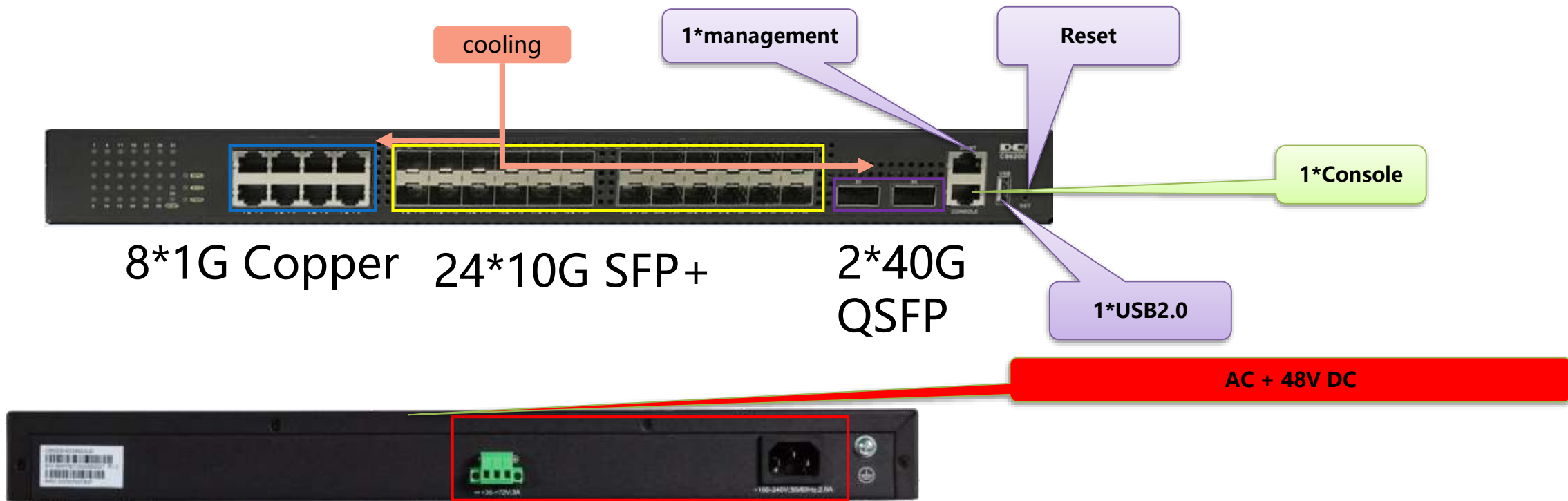
# L3+ GE+10G fiber switch



# Interface details



## CS6200-8G24S2Q-EI

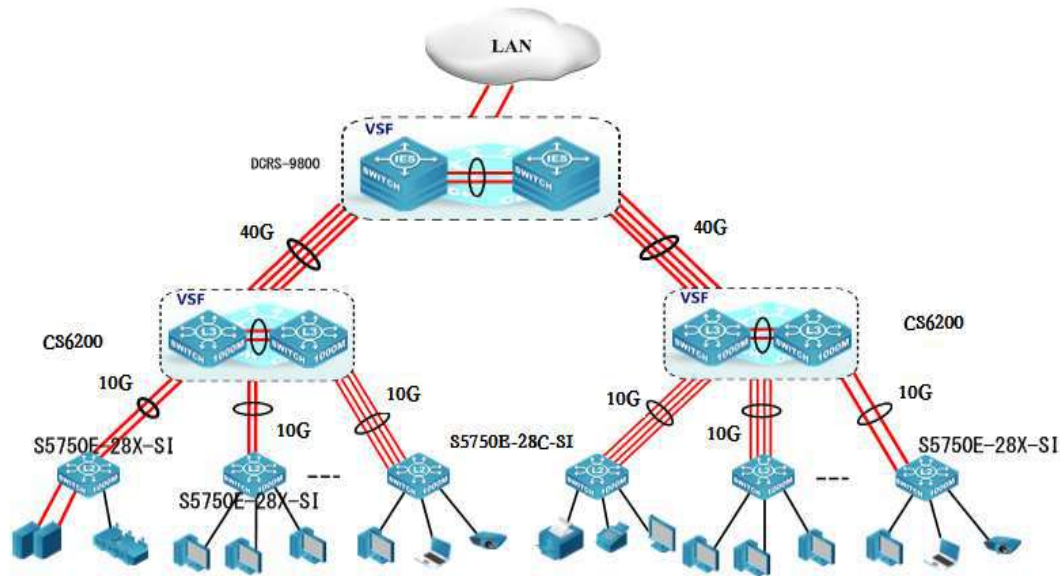


# CS6200 series - typical scheme



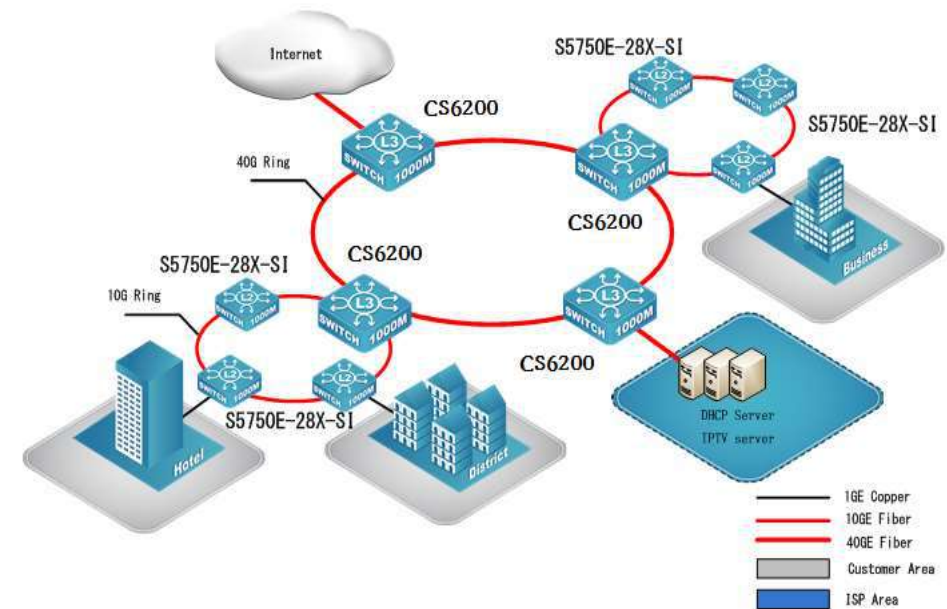
## Enterprise aggregation

- Hardware Stacking
- LAG cross switch



## Small ISP core switch

- ERPS, link failure recovery time < 20ms
- L3 advanced dynamic routing



# Competition



Model name	DCN: CS6200-8G24S2Q-EI	ARISTA:7020SR-2402	Cisco: Nexus 3524-XL
Port	8GT+ 24 SFP+ + 2 QSFP+	24 SFP+ + 2QSFP+	24 SFP+
USB	1 USB 2.0	1 USB 2.0	1 USB 2.0
console	RJ45	RJ45	RJ45
Management port	10/100/1000M base-T	100/1000M base-T	2*100/1000M base-T
PSU	AC + DC48V	2 power supply slots	2 power supply slots
FDB	32k	32K	64k
Route	16k	16K	24K
OSPF	Yes	Yes	Yes
BGP	Yes	Yes	Yes



# L3 GE+10G copper switch

**DCN**



S5750E-28X-SI(R2)



PoE

S5750E-52X-SI(R2)



PoE

S5750E-28X-P-SI(R2)



60w

S5750E-52X-P-SI(R2)



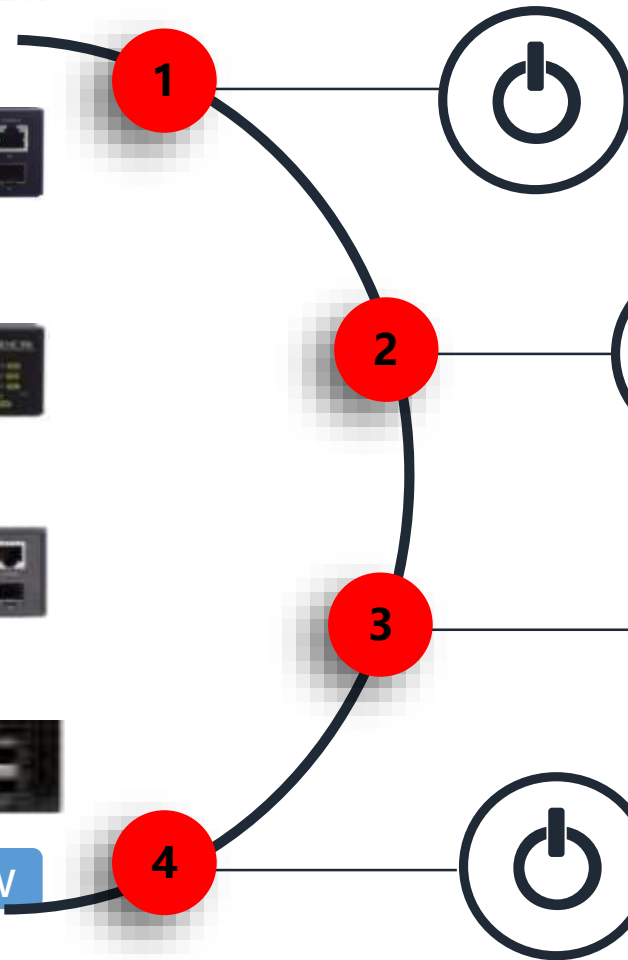
S5750M-30X-P-SI

90w

New



S5750M-18X-P-SI



**USB, Ethernet  
management port**



**Hardware stacking**

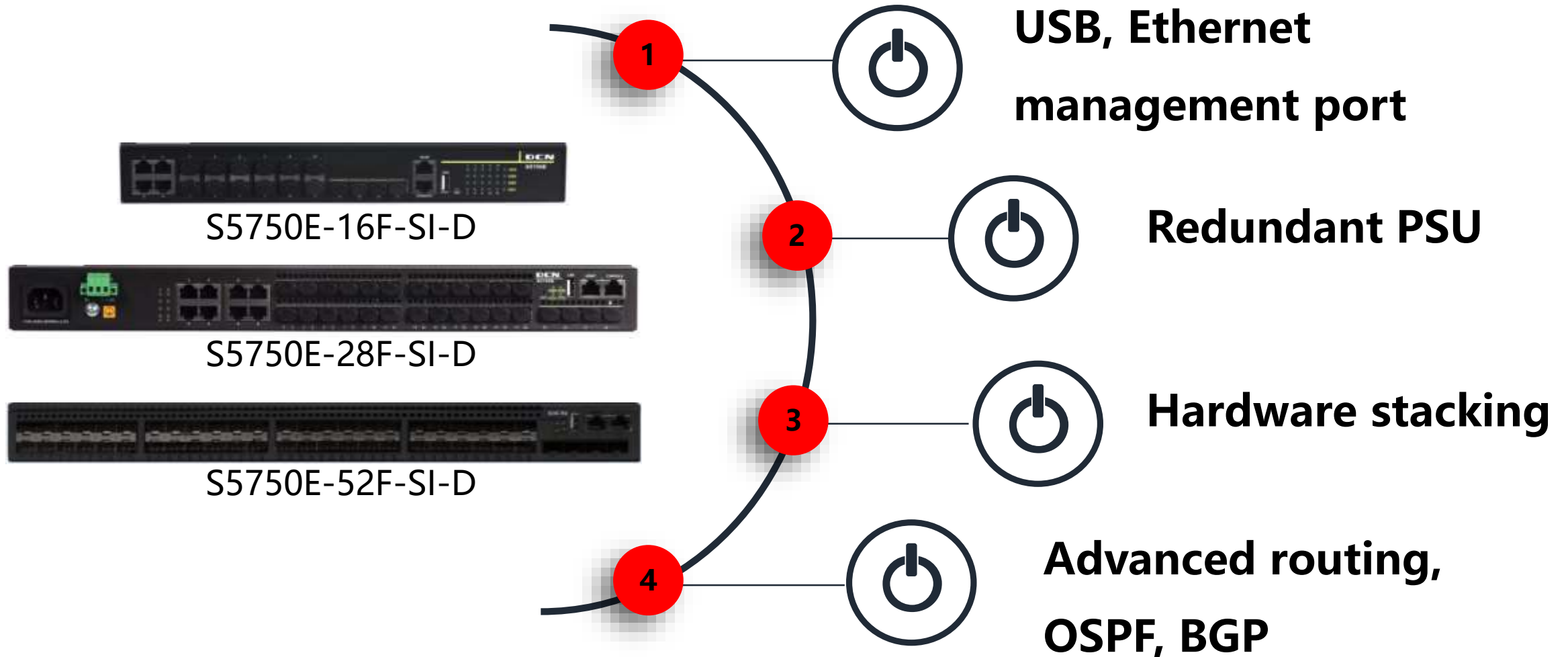


**Advanced routing,  
OSPF, BGP**



**AF/AT/BT, up to 370w  
/ 740w for PoE**

# L3 GE+10G fiber switch



# S5750E R2 vs. CS6200

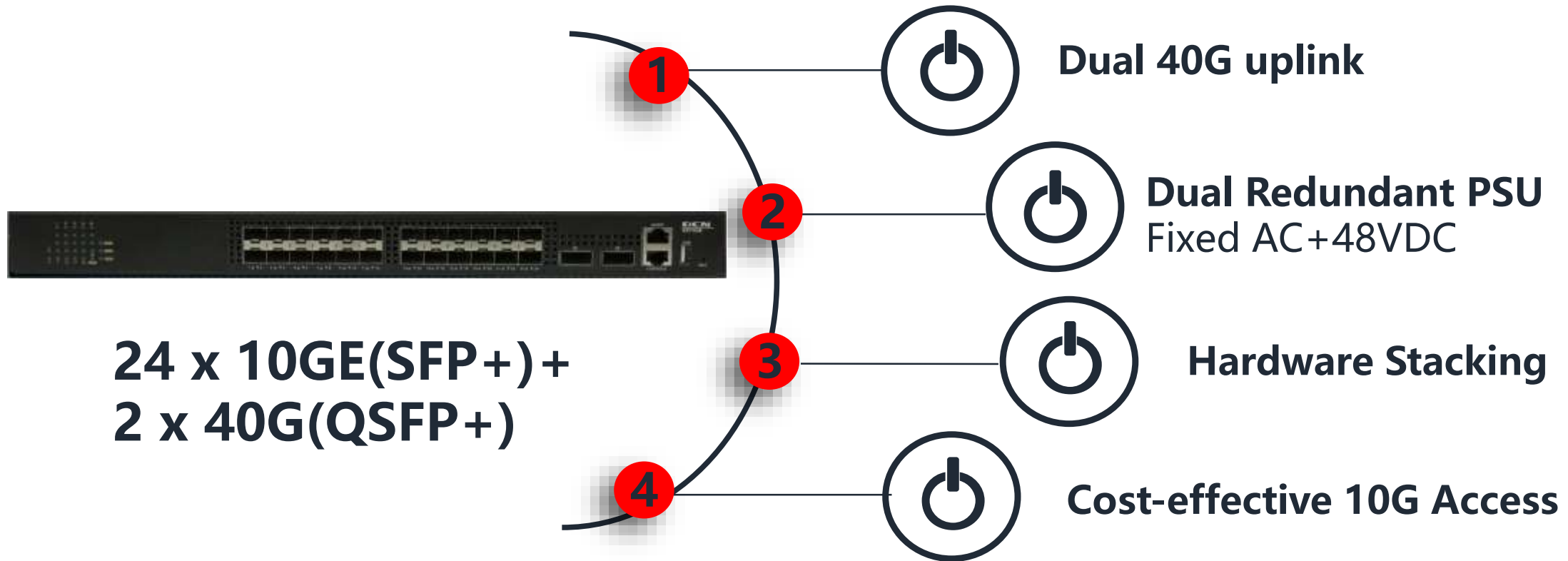


	S5750E R2	CS6200 R2
MAC Entry	16k	16k
Power Supply	Mostly Fixed AC	<b>Dual fixed AC</b>
Routing Protocol	OSPF, BGP	OSPF, BGP
OpenFlow	No	<b>Yes</b>
L3 MPLS VPN	No	<b>Yes</b>
IPv4 Route Entry	1k	<b>13k</b>
ACL Entry	1k	<b>3k</b>

# L3- 10G+40G S5750E-26X-SI



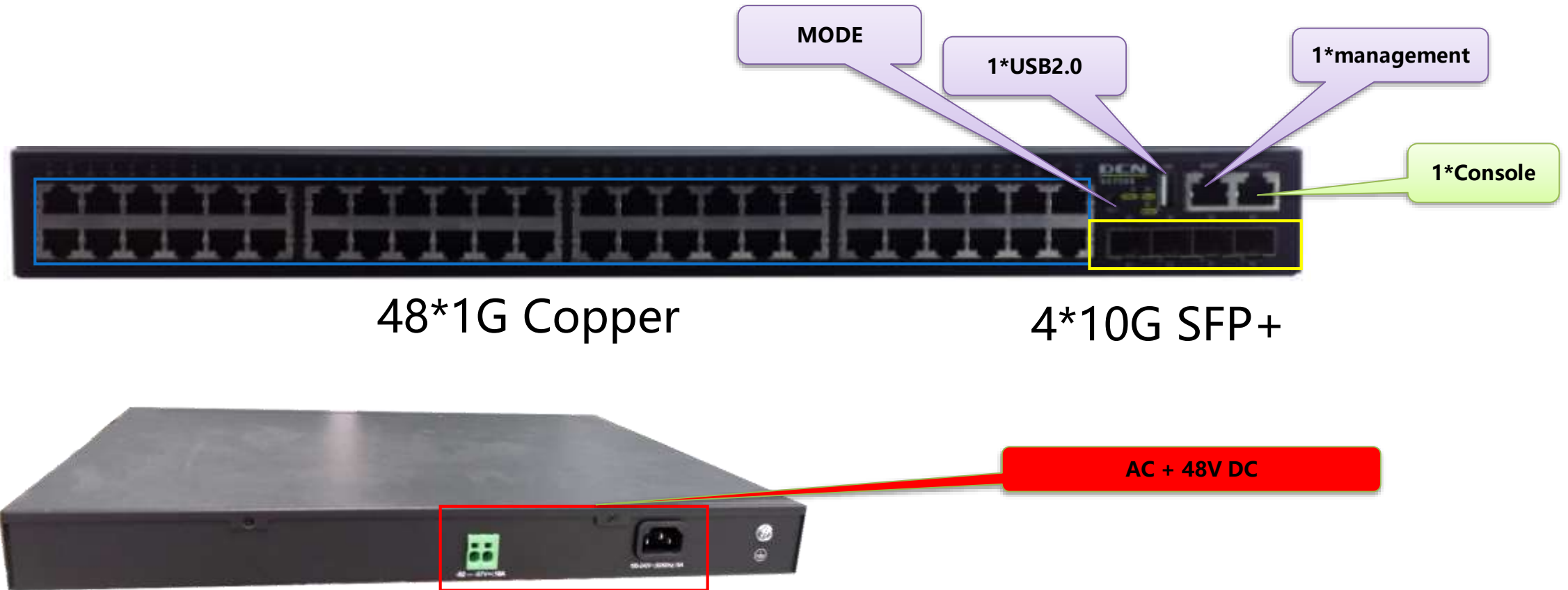
Full 10G access



# Interface details

**DCN**

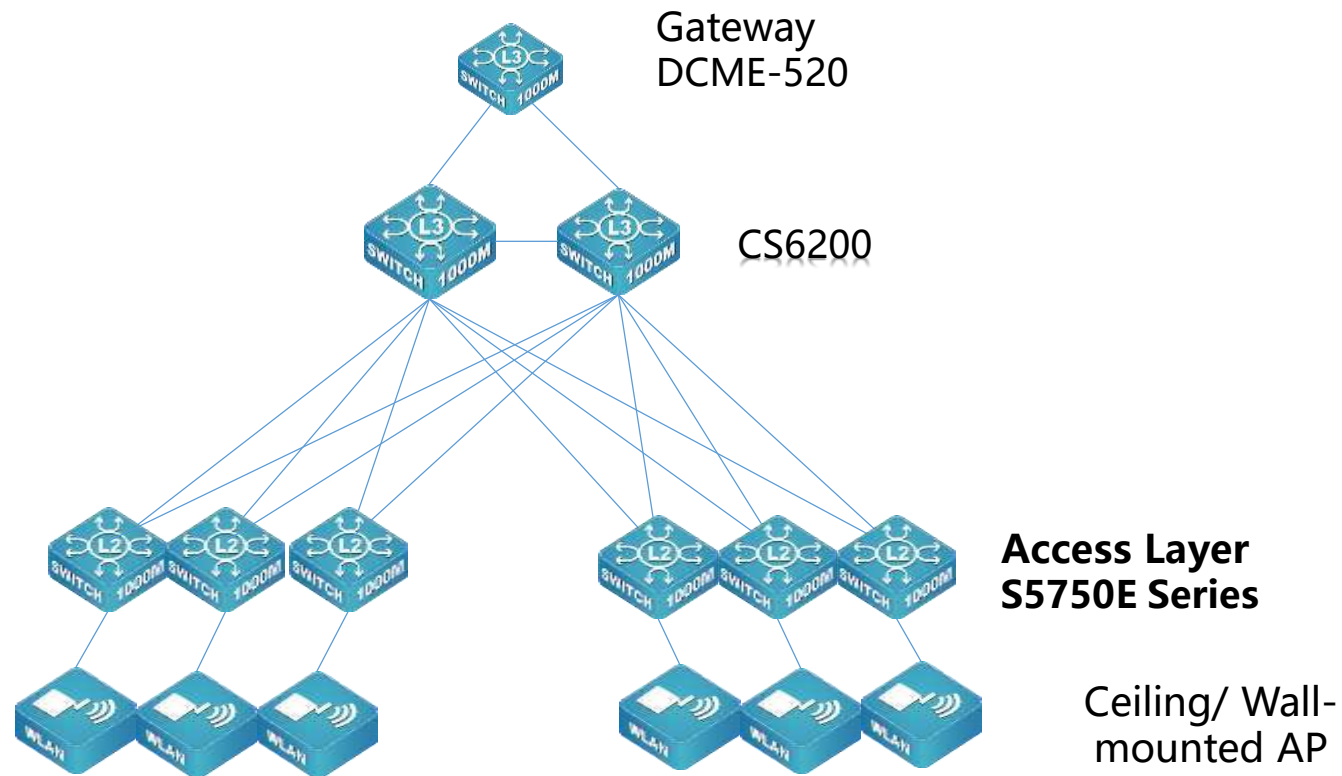
## S5750E-52X-P-SI



# Middle enterprise access switch



- VSF(Stacking) avoid single point failure
- Cost effective



# Competition

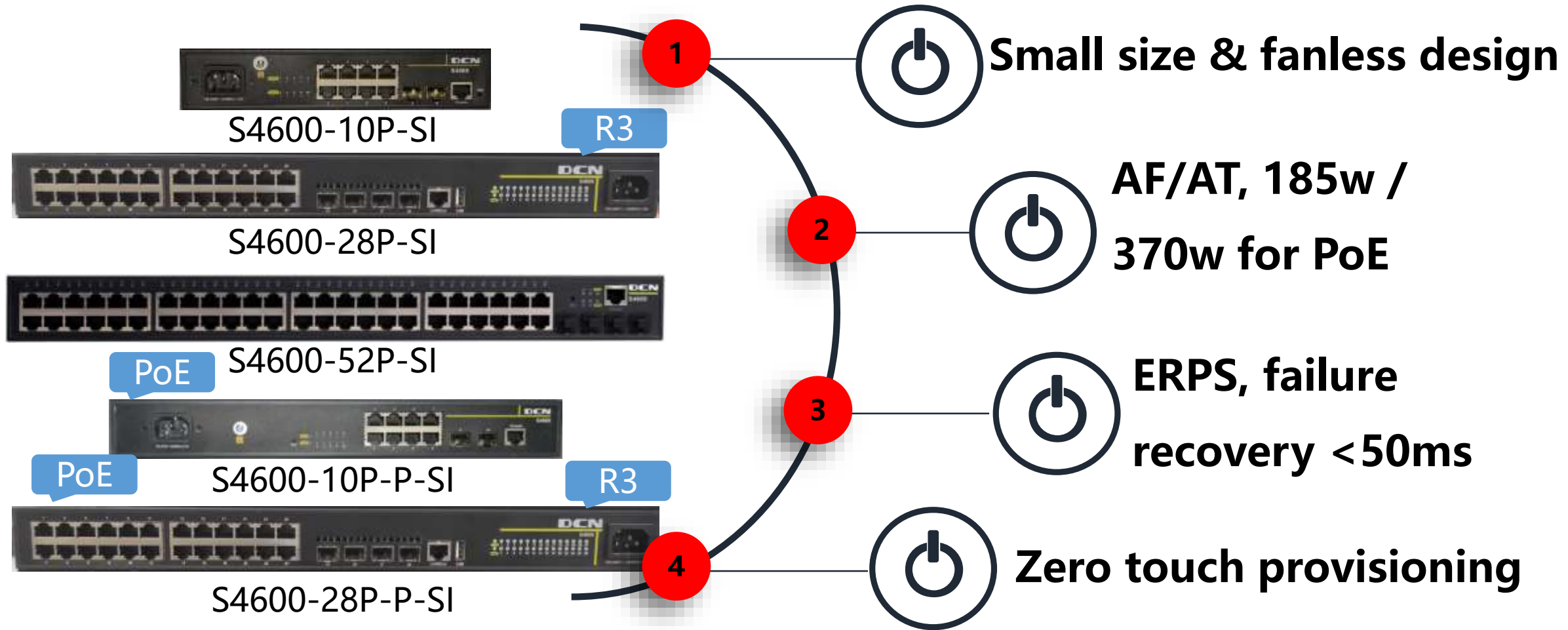
**DCN**

Save 30%-  
50%

Model name	DCN: S5750E-26X-SI	Huawei S6720-26Q-L-24S AC	Cisco: Nexus 3524-XL
Port	24 SFP+ + 2 QSFP+	24 SFP+ + 2 QSFP+	24 SFP+
USB	USB 2.0	USB 2.0	USB 2.0
console	RJ45	RJ45	RJ45
Management port	10/100/1000Base-T	10/100/1000Base-T	2*10/100/1000Base-T
PSU	AC + DC48V	AC	2 power supply slots
FDB	32k	32K	64k
Forwarding rate	488 Mpps	480 Mpps	360 Mpps
OSFP	Support	Support	Support
BGP	Support	NA	Support

# L2 GE intelligent switch

**DCN**





# S4600 R3 vs. R2



Model	S4600-28P-SI R3	S4600-28P-P-SI R3	S4600-28P-SI R2	S4600-28P-P-SI R2
Port Density	24xGE-T + 4x1G SFP	24xGE-T PoE + 4x1G SFP	24xGE-T + 4x1G SFP	24xGE-T PoE + 4x1G SFP
Memory	256M	256M	128MB	128MB
USB Port	Y	Y	N	N
Multicast MAC Entry	4K	4K	2K	2K
ACL Entry	216	216	2K	2K
Dual Image	No	No	Yes	Yes
StormControl	bps based	bps based	bps&pps based	bps&pps based
L3 Routing	Yes, static	Yes, static	No	No

# L2+ GE+10G intelligent switch

**DCN**



S4600-28X-SI



S4600-52X-SI

New



S4600-28X-P-SI

New

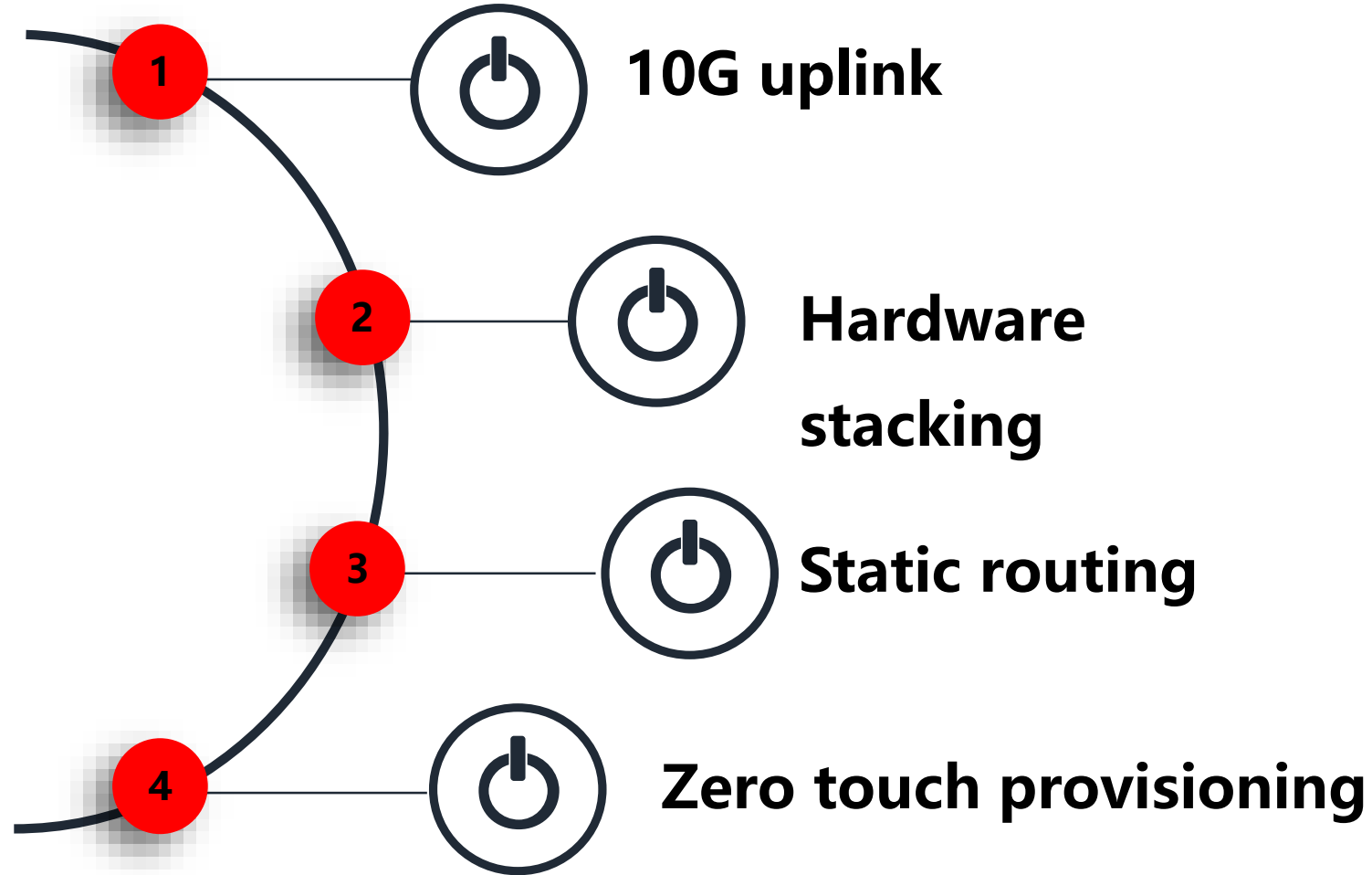


S4600-12X-P-SI

New



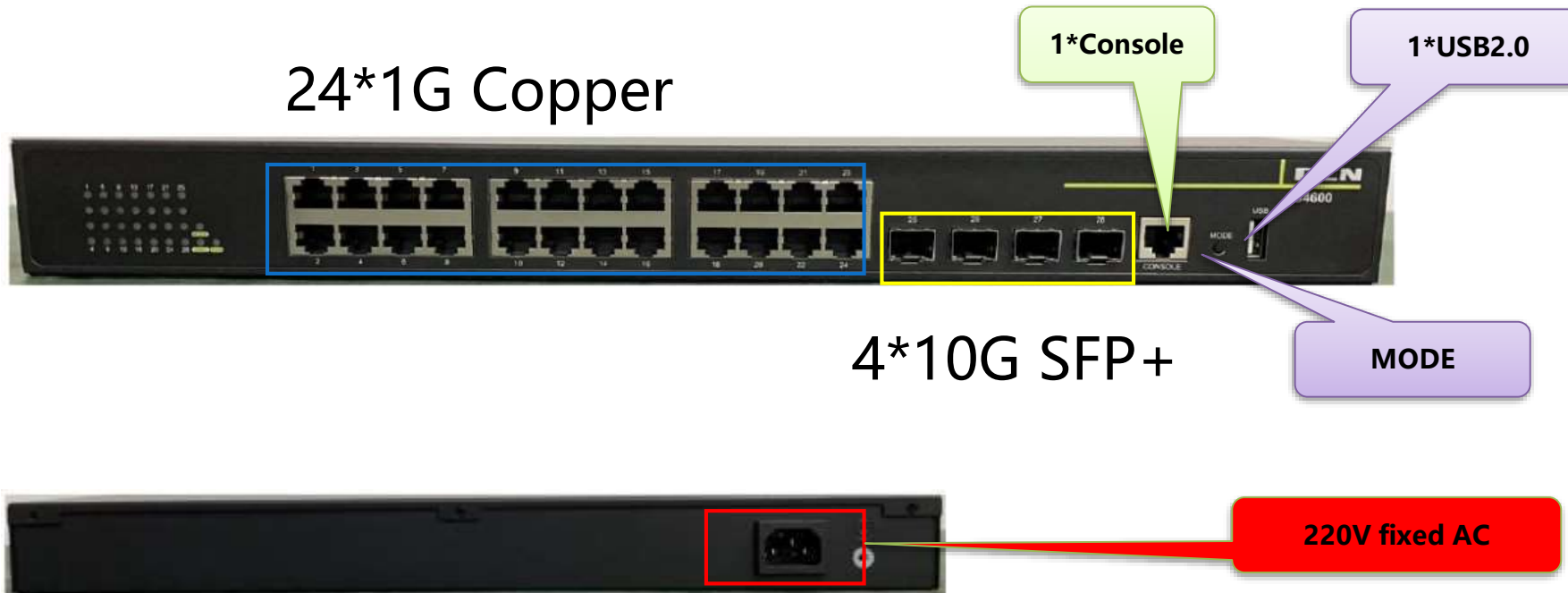
S4600-12X-SI



# Interface details



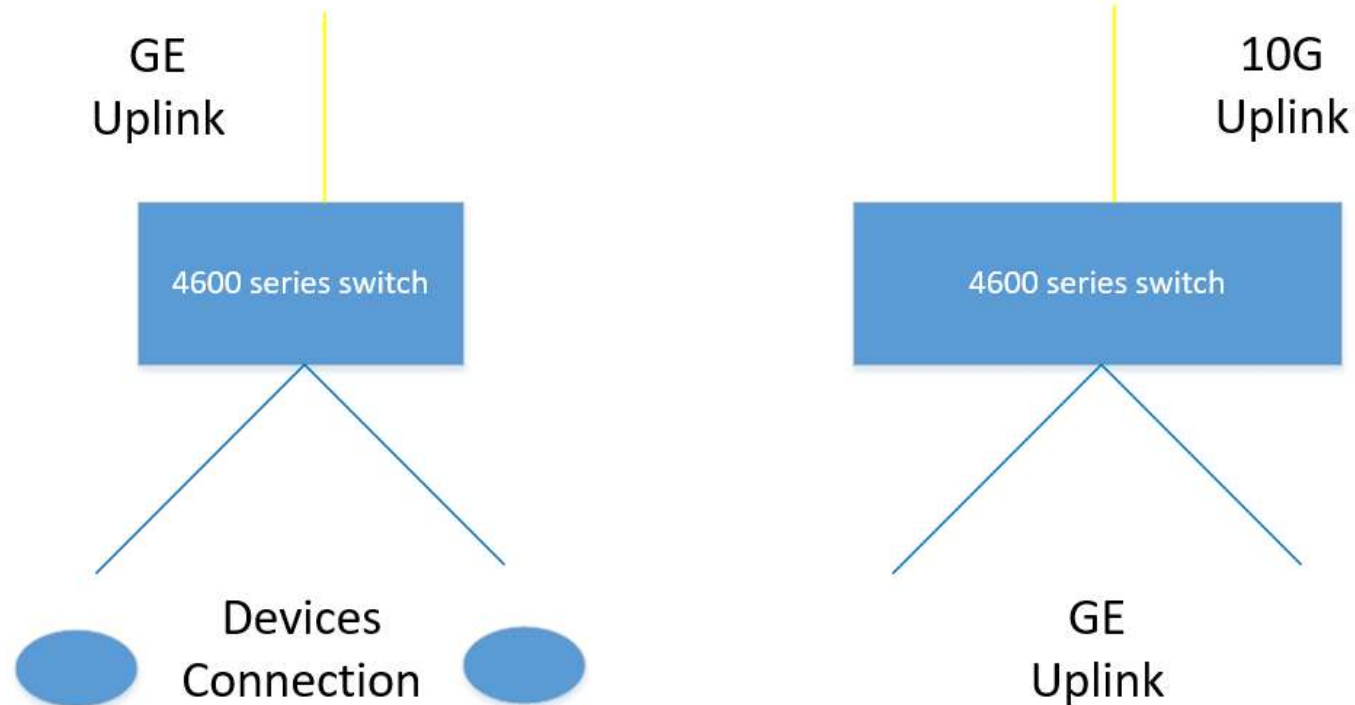
## S4600-28X-P-SI



# Application scenario



**Intelligent energy-saving full gigabyte access switches with small size models**



# L2 GE intelligent switch

**DCN**

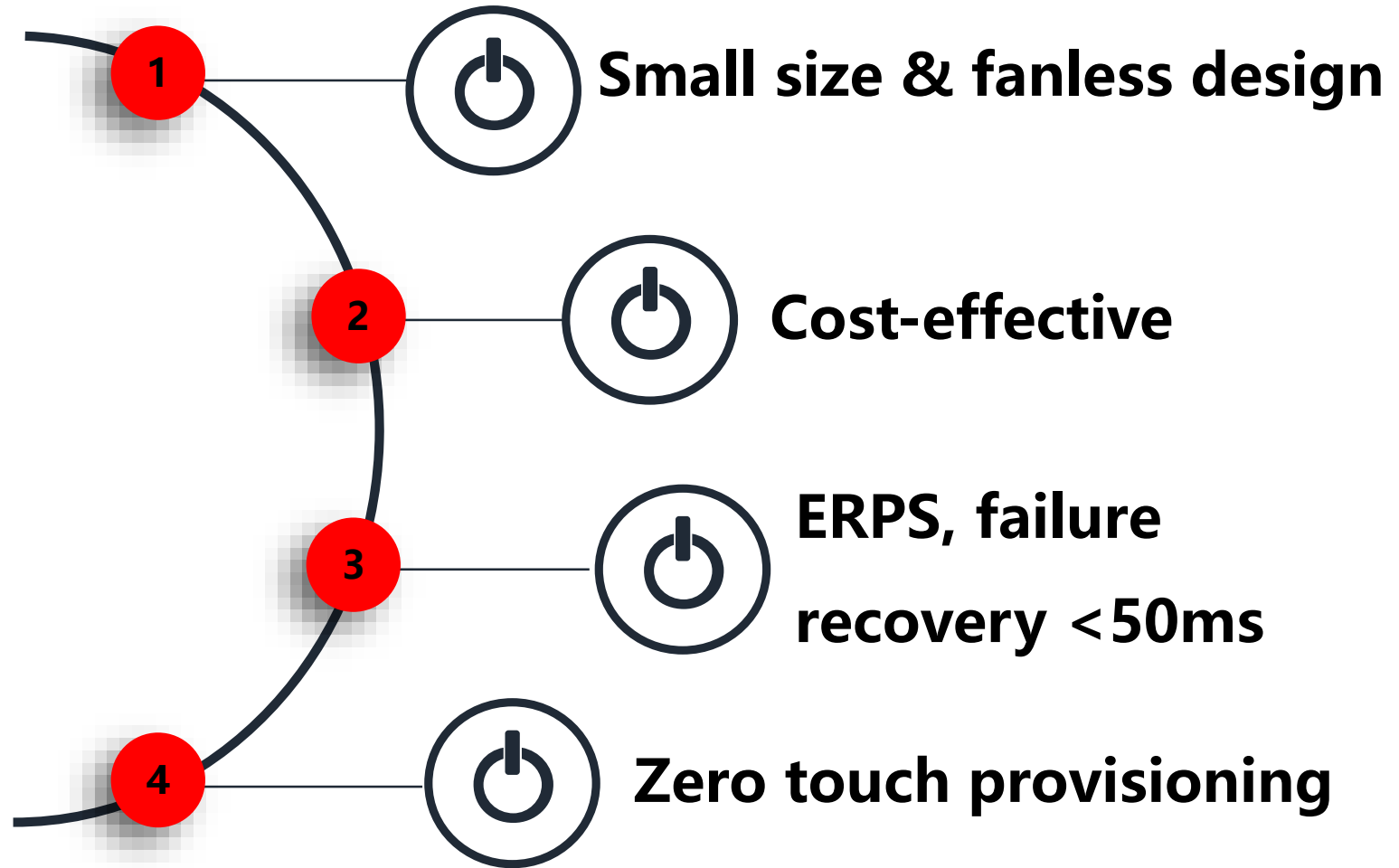


S4200-10P-SI

PoE



S4200-10P-PL-SI



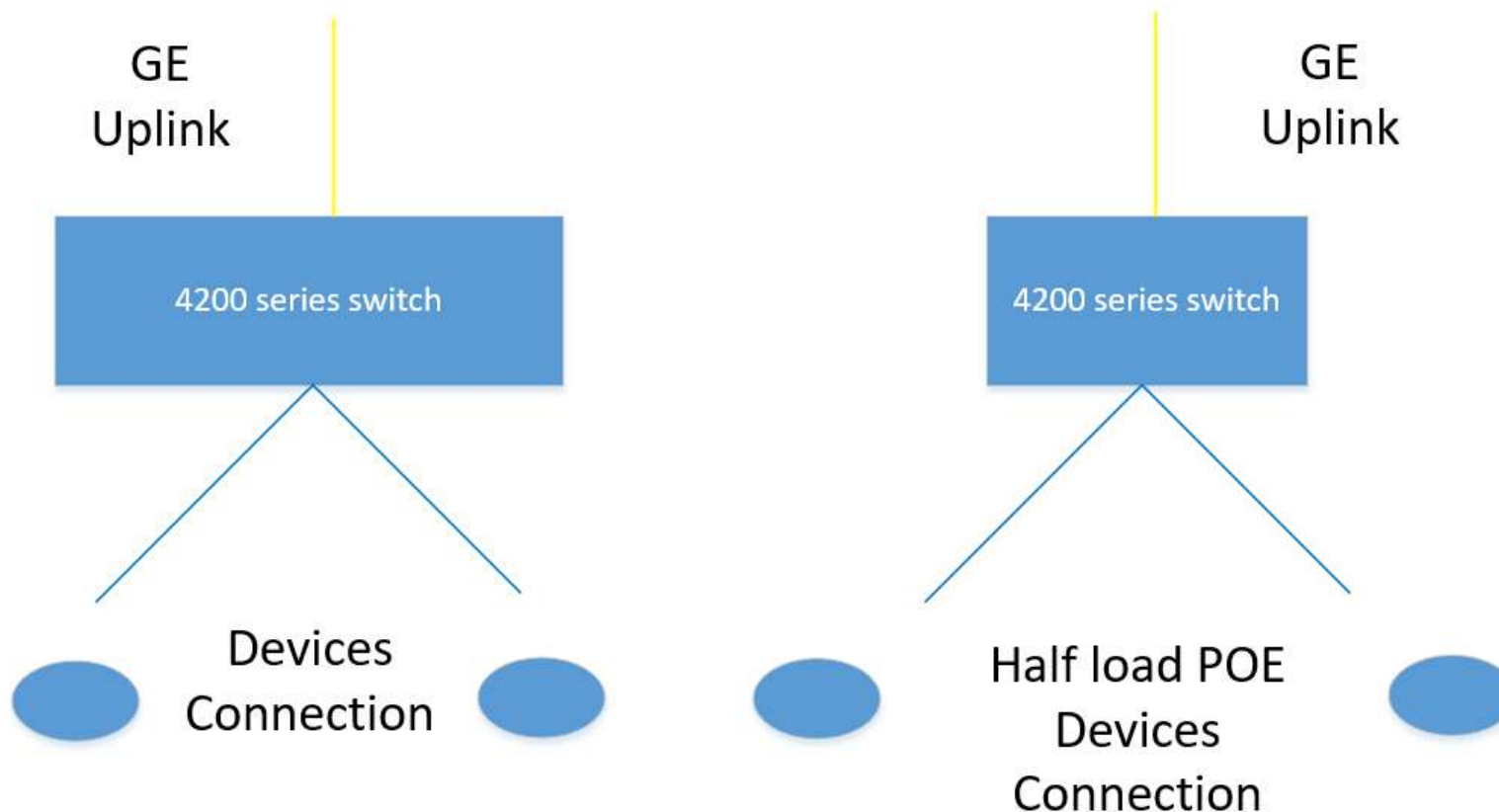
# S4200 vs. S4600



	S4200	S4600
MAC Entry	8k	16k
Multicast MAC Entry	500	<b>1k</b>
Packet Buffer	4.1Mb	12Mb
Sflow	No	<b>Yes</b>
ACL rules	1408	<b>2048</b>

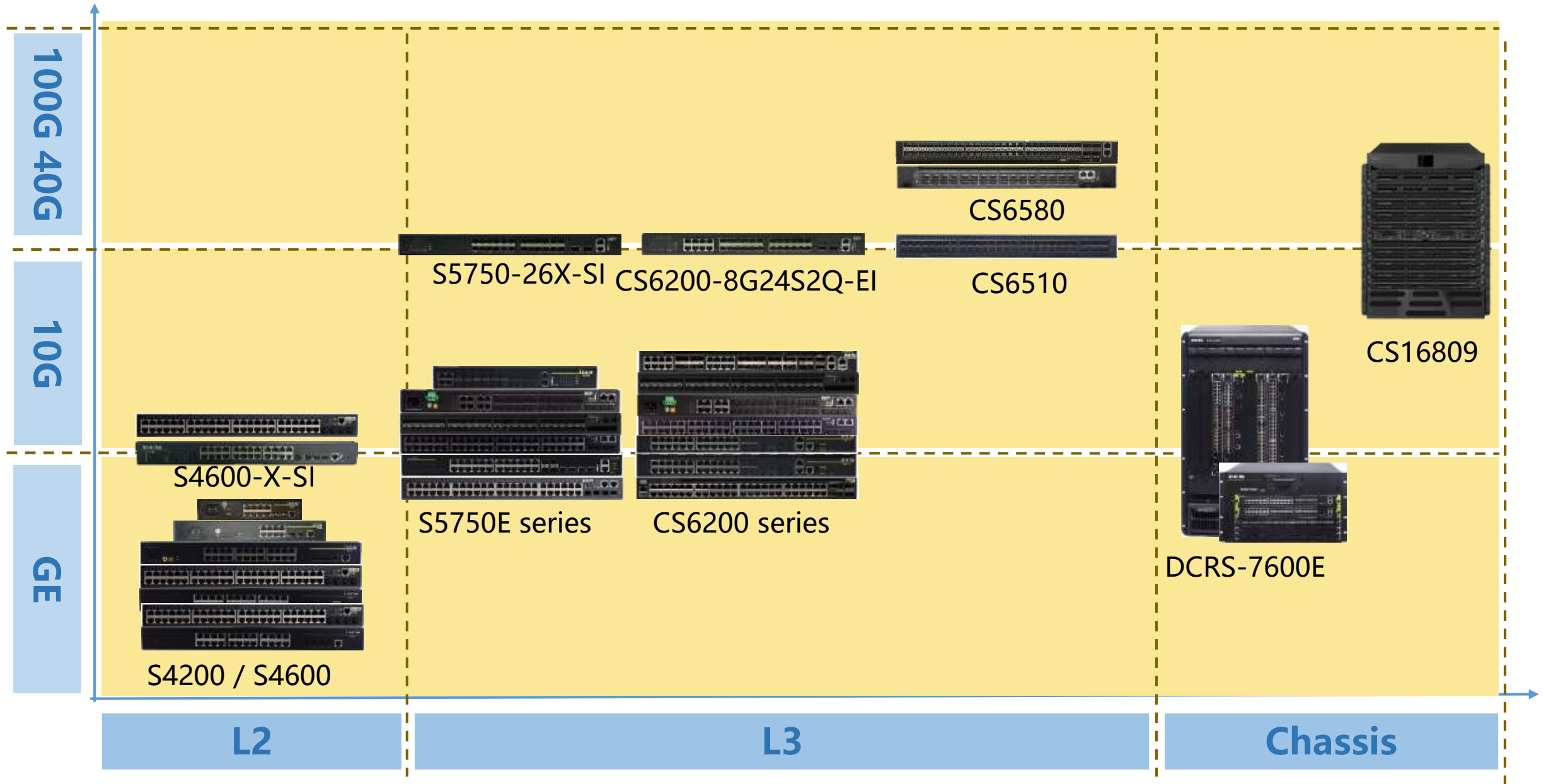
## Intelligent energy-saving full gigabyte access switches with half load

### Poe models and small size models



# Ethernet switch product positioning

DCN





02

# Industrial Switch

# DCN industrial product family



## Din-Rail



IS2100-2GF8TX



IS2100-2GF8GT



IS2100-4GF10GT



PoE

IS2100-2GF8TX-P



PoE

IS2100-2GF8GT-P



PoE

IS2100-4GF10GT-P

## 10G Modular Switch



IS5600G/XG-2U



ISMG-8GT-2U



ISMG-4GX-2U



ISME-8GF-2U



ISME-4XS

## FE Modular Switch



IS3600E-28M



IS5600E-28M



ISME-8TX



ISME-4TX4FX



ISME-8FX

## GE Modular Switch



IS3600G-28M



IS5600G-28M



ISMG-8GT



ISMG-4GX

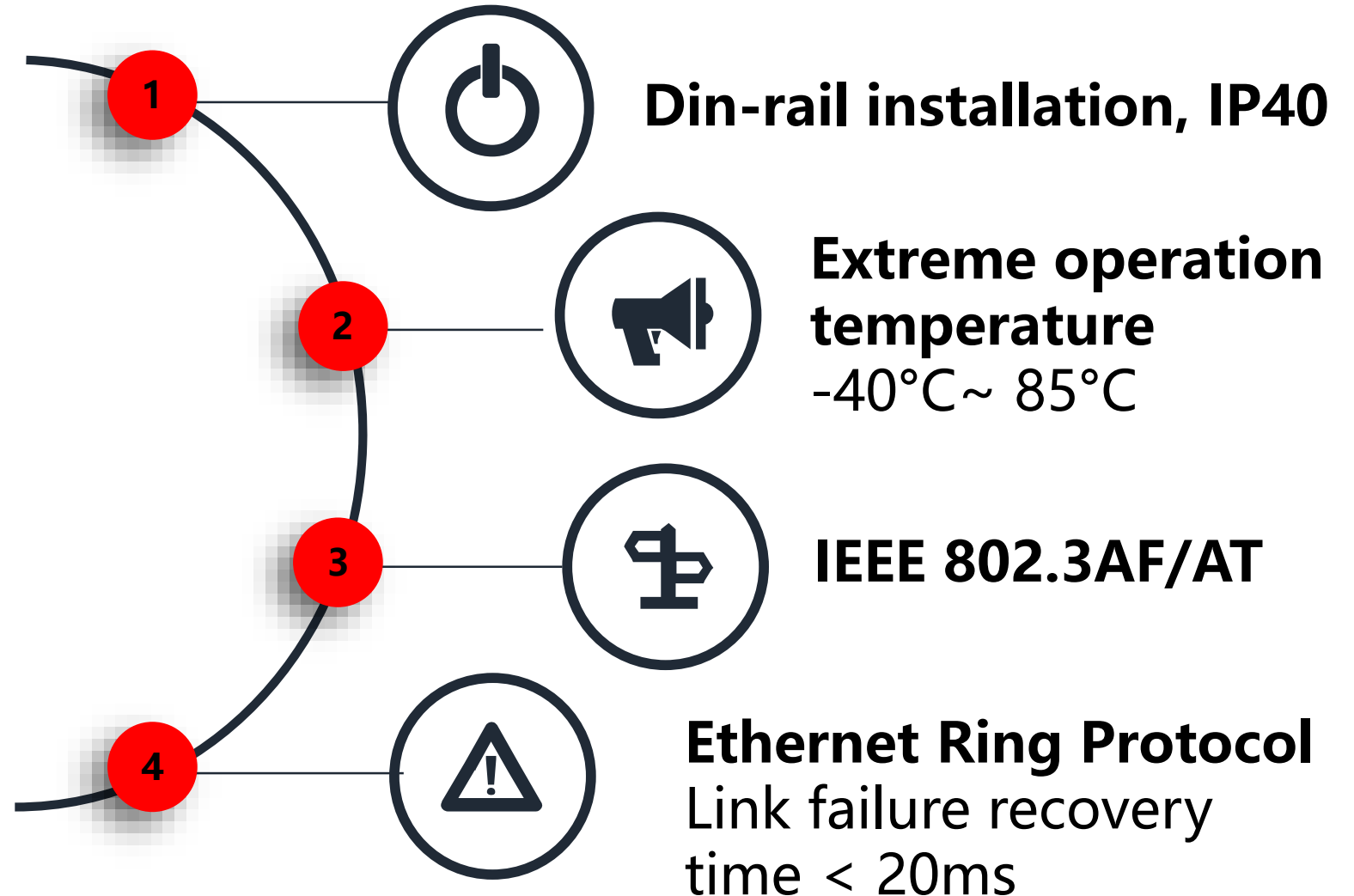


ISME-8GF

# IS2100D Din-rail industrial switch



IS2100D



# Reliable hardware design



Chips could run at high-temperature with low power consumption and small heat dissipation



Protection against electromagnetic interference



Enhanced chipset, large capacitance



MTBF > 500000 hours



Long life cycle



Keep reliably running in extreme temperature condition

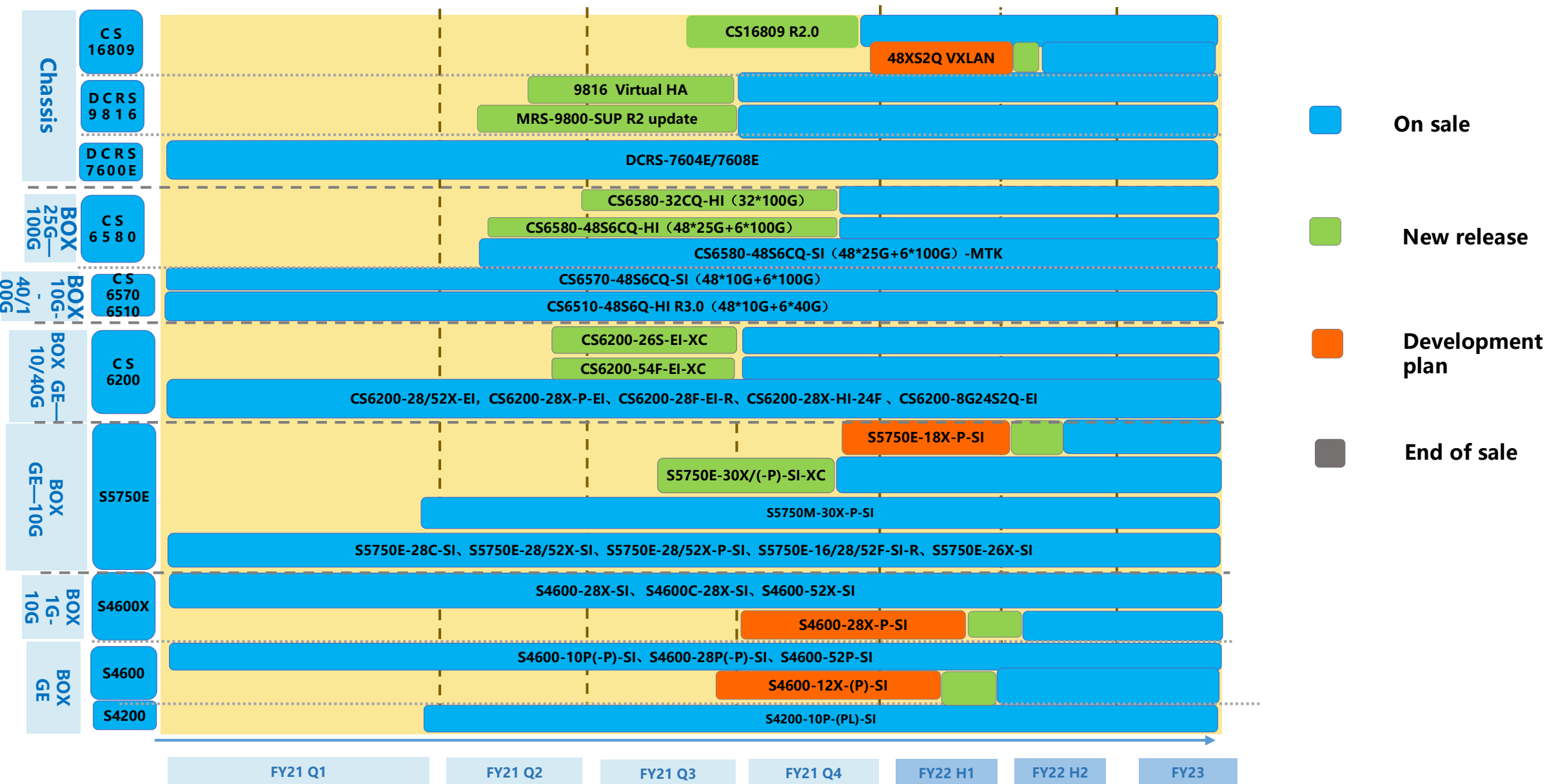


Redundant power supply



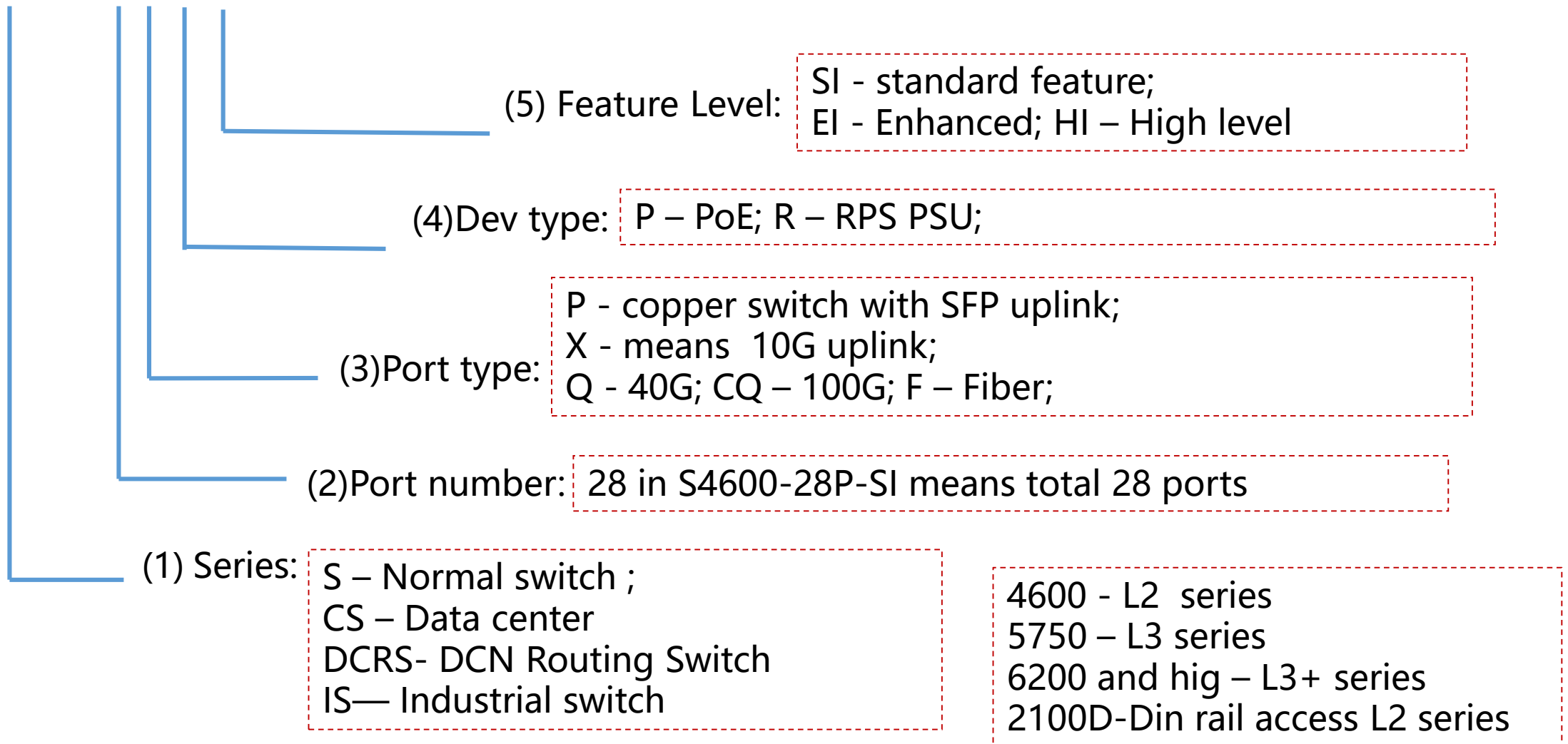
Fanless design

# Roadmap 2022



# Naming of Switch

*S5750E-28X-P-SI*



# Naming of Switch

## **S4600-28X-P-SI**

L2 switch with 28 ports and 10G uplink. It is also PoE switch with standard feature

## **S5750E-52X-P-SI**

L3 switch with 52 ports and 10G uplink. It is also PoE switch with standard feature

## **IS2100D-2GF8GT**

Industrial switch Din rail model with 8 Copper GE port and 2 SFP GE port. And it is access layer2 switch.

# Network accessories

## Optical module

The transmitting end converts the electrical signal into an optical signal. After being transmitted through the optical fiber, the receiving end converts the optical signal into an electrical signal



## DAC/AOC Cable

Copper or optical cables equipped with transceivers at both ends to complete short-distance signal transmission or stacking





**03**

# **Introduction to WLAN Product Family & Roadmap**

# Naming Rules-AP



**WL 82 00 - X W 2 - F - L**

When spatial streams same, H-High end, P-Pro, S-Simplify, L-Low, default none stand for normal

Default none, M-IoT, F-Fiber port

Spatial streams of single frequency

Default none, W-In-wall, T-Outdoor External, IT-Outdoor Internal

X-Wi-Fi 6, E-Wi-Fi 7

Reserved

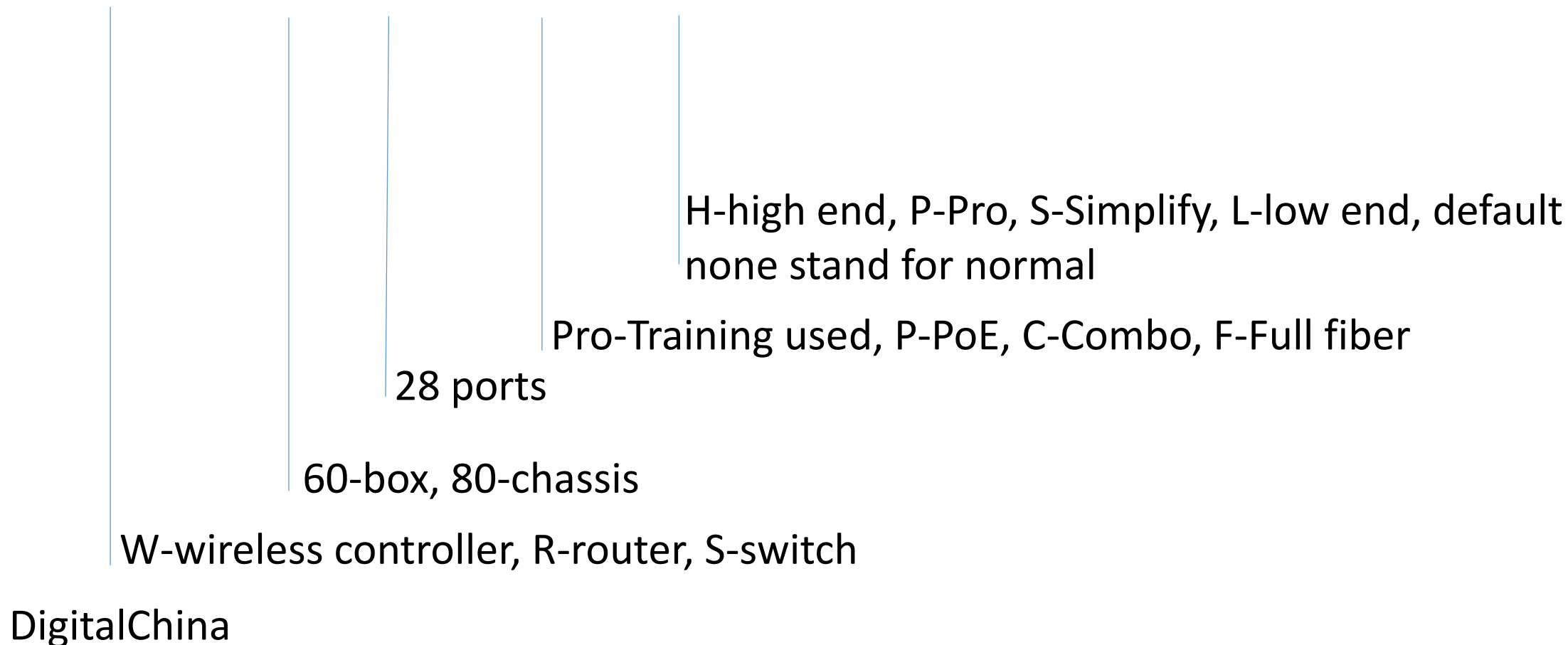
802.11ac, 802.11ax, 802.11be

WLAN

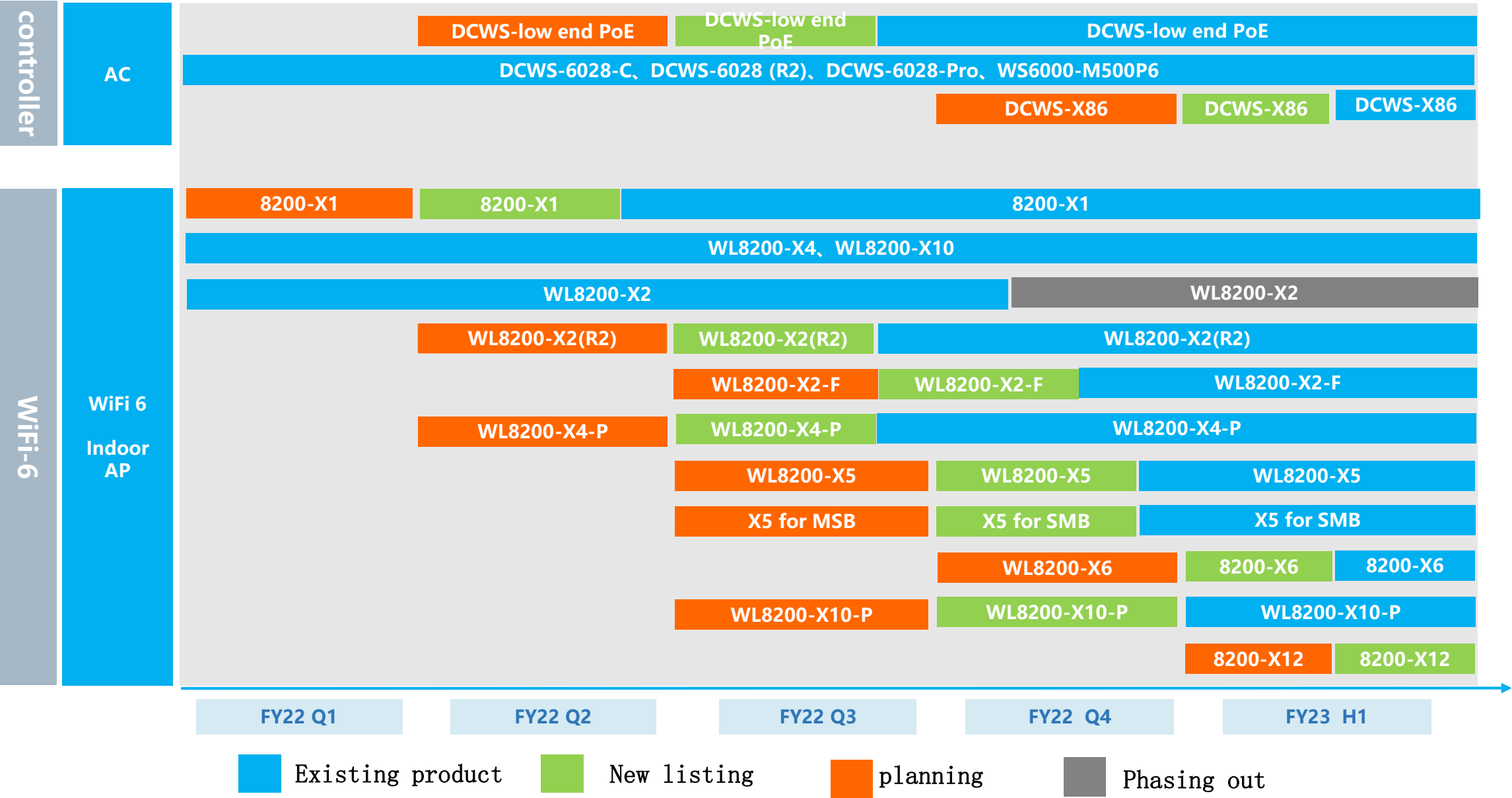
# Naming Rules-WLC



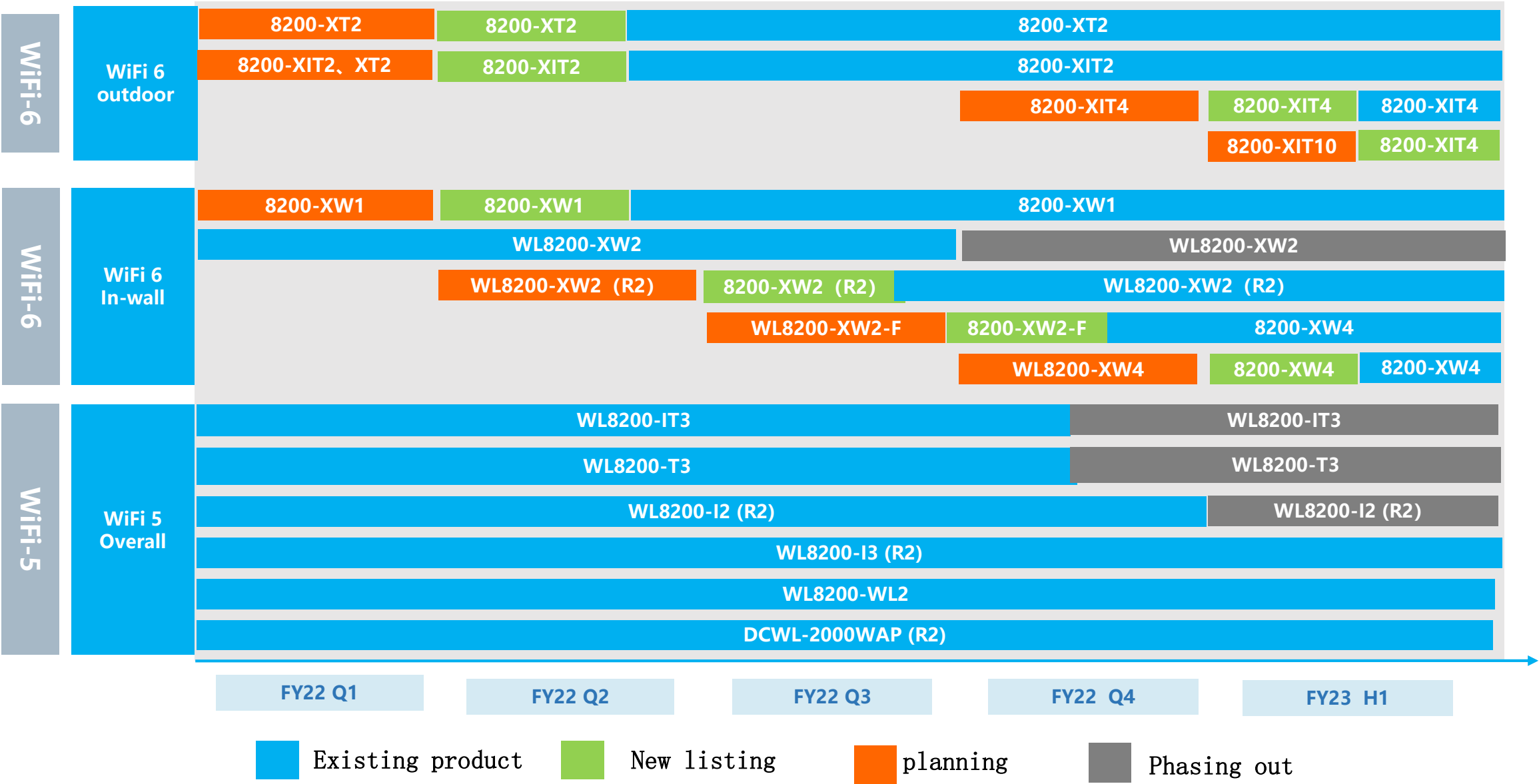
**DC WS – 60 28 – Pro – L**



# Roadmap



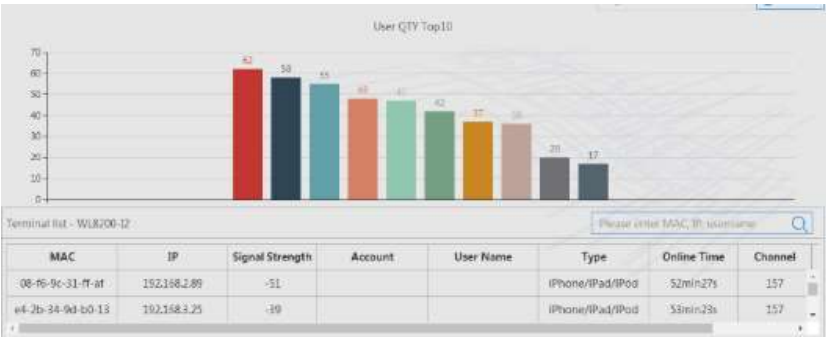
# Roadmap



# Wireless Enterprise Product Family



Management



ImCloud

AC



AP



# ImCloud 8860 & 8260



**ImCloud 8260**





**ImCloud 8860**

- Maximum manageable APs: 5k
- Default manageable APs: 32
- Maximum concurrent users: 100K
- Maximum authentication user 500k
- SSID number 500
- 1+1 redundancy

- Maximum manageable APs: 10k
- Default manageable APs: 32
- Maximum concurrent users: 300K
- Maximum authentication user 800k
- SSID number 500
- 1+1 modular AC power
- 1+1 redundancy

# Wireless Controller





Model	 DCWS-6028-C	 WS6000-M500P6	 DCWS-6028 (R2)
Manageable APs	256	512	2048
Concurrent users	5K	20K	10K
Ports	24 x 10/100/1000GbE 2 x Combo (GbE/SFP) 2 x 10G SFP+	6 x 10/100/1000GbE	16 x GE combo 8 x GE SFP 4 x 10G SFP+
Redundancy	N+M	N+M	N+M







# Indoor Wi-Fi 5 AP



Model	 WL8200-I2(R2)	 WL8200-I3(R2)
Protocol	802.11a/b/g/n/ac wave 2	802.11a/b/g/n/ac wave 2
Spatial Streams	Dual-band, 4*4 MIMO	Triple-band, 4*4 MIMO
Bandwidth & Concurrent users	1167 Mbps, 254 concurrent users	2.9 Gbps, 350 concurrent users
Ports	1*GE, 1*USB	2*GE, 1*USB, 1*Console

# Indoor Wi-Fi 6 AP



Model	 WL8200-X1	 WL8200-X2	 WL8200-X4	 WL8200-X10
Protocol	802.11a/b/g/n/ac /ax	802.11a/b/g/n/ac /ax	802.11a/b/g/n/ac /ax	802.11a/b/g/n/ac /ax
Spatial Streams	Dual-band, 2*2 MIMO	Dual-band, 2*2 MIMO	Dual-band, 4*4 MIMO	Triple-band, 8*8 MIMO
Bandwidth & Concurrent users	1775 Mbps, 200+ concurrent users	1775 Mbps, 200+ concurrent users	2975 Mbps, 300+ concurrent users	6.82 Gbps, 400+ concurrent users
Ports	2*GE, 1*Console	2*GE, 1*Console, 1*USB	2*2.5Gbps, 1*BLE, 1*Console, 2*USB	2*2.5Gbps, 1*BLE, 1*Console, 1*USB

# Wi-Fi 6 indoor AP – WL8200-X10



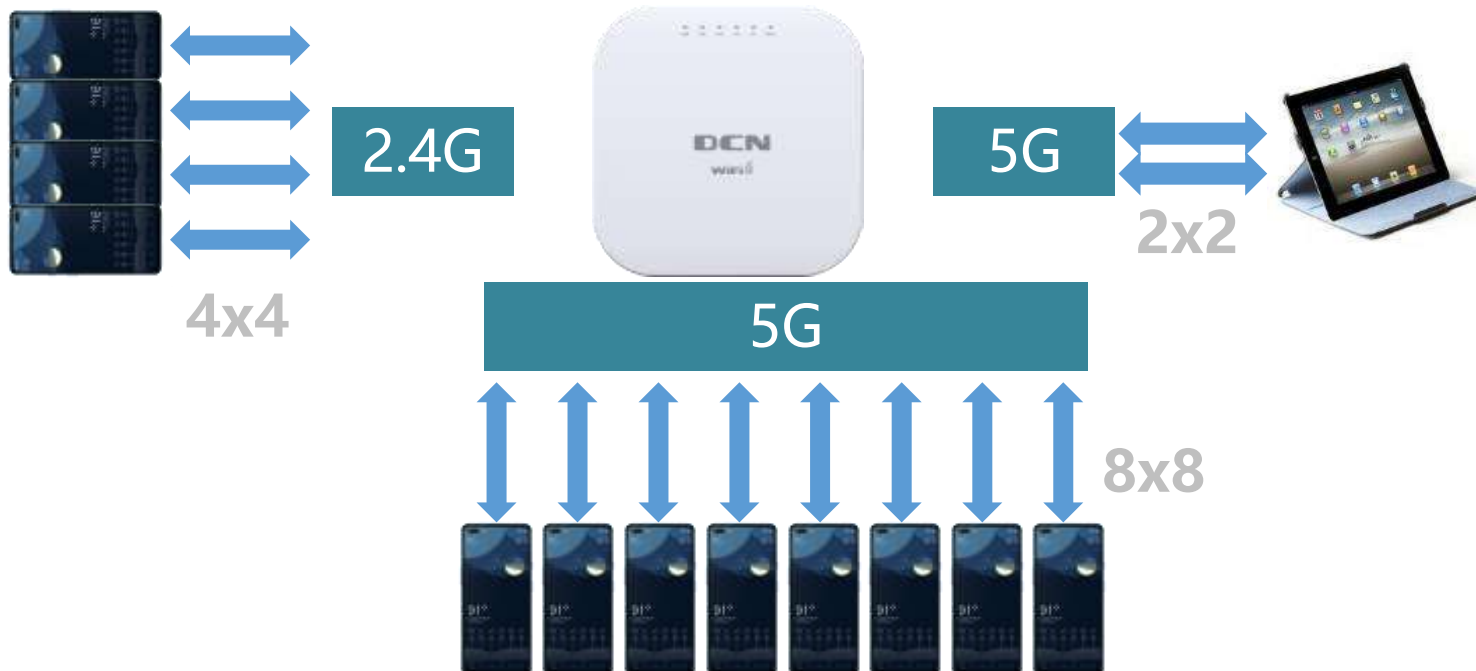
4K/8K Video



VR/AR Application






Auditorium



- Industry-leading tri-band **14** spatial streams
- High performance access, **6.82G** bandwidth
- High density access, **400+** concurrent users
- USB & BLE supported for IoT extension



# In-wall AP



Model	 WL8200-WAP2000	 WL8200-XW1	 WL8200-XW2
Protocol	802.11n	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax
Spatial Streams	Single-band, 2*2 MIMO	Dual-band, 2*2 MIMO	Dual-band, 2*2 MIMO
Bandwidth & Concurrent users	300 Mbps, 30 concurrent users	1775 Mbps, 200+ concurrent users	1775 Mbps, 200+ concurrent users
Ports	3*100Mbps	2*GE	5*GE, 2*10/100/1000 Pass-through ports



# Outdoor Wi-Fi 5 AP



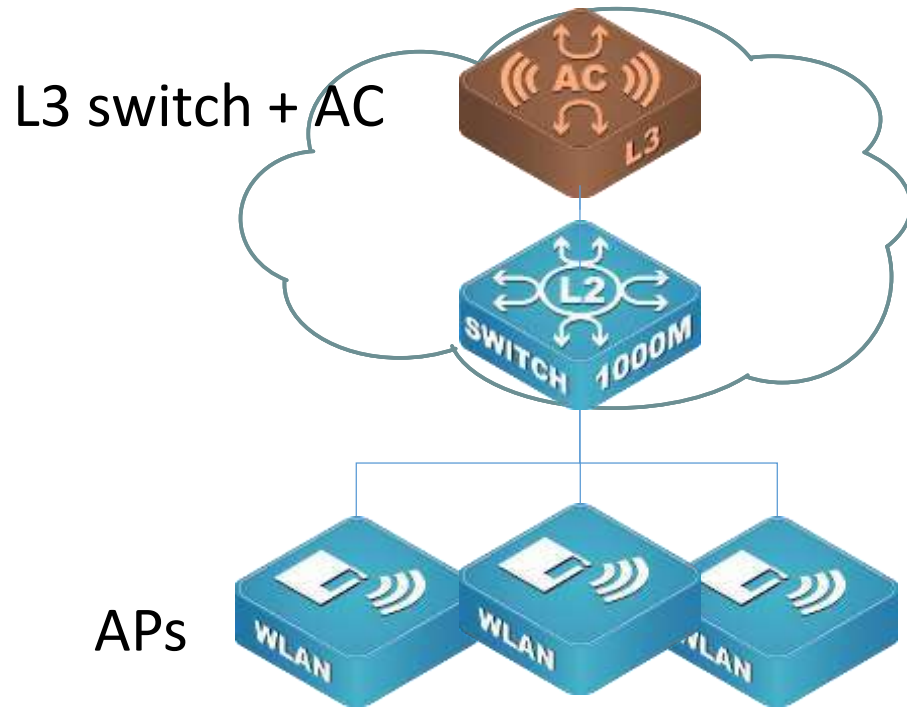
Model	 WL8200-IT3	 WL8200-T3
Protocol	802.11a/b/g/n/ac wave 2	802.11a/b/g/n/ac wave 2
Spatial Streams	Dual-band, 2*2 MIMO	Triple-band, 2*2 MIMO
Bandwidth & Concurrent users	1267 Mbps, 254 concurrent users	1700 Mbps, 254 concurrent users
Ports	2*GE, 1*SFP, 1*BLE	2*GE, 1*SFP

# Outdoor Wi-Fi 6 AP

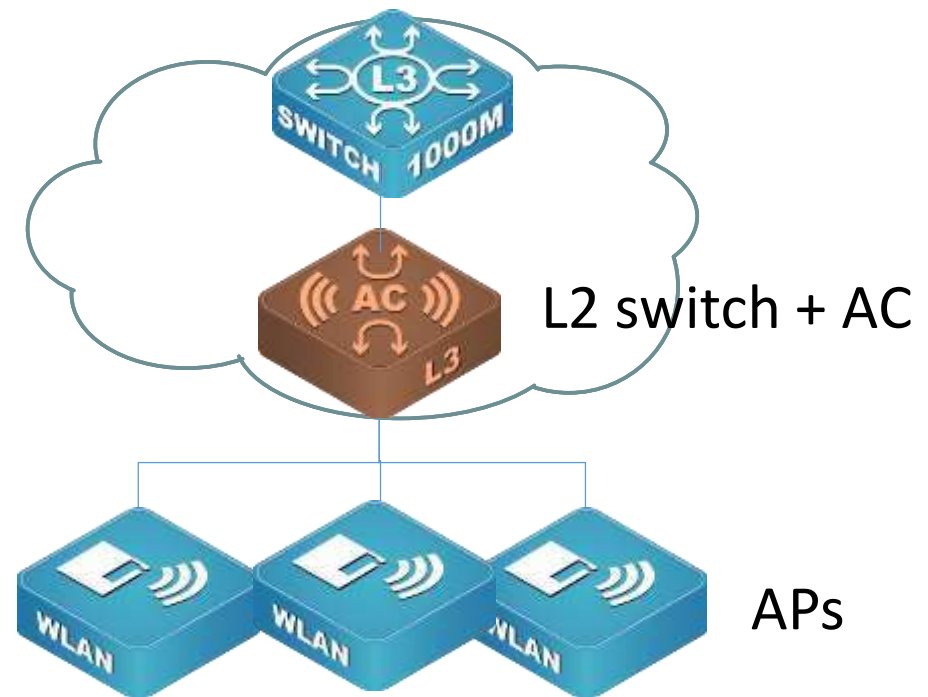


Model	 WL8200-XIT2	 WL8200-XT2
Protocol	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax
Spatial Streams	Dual-band, 2*2 MIMO	Dual-band, 2*2 MIMO
Bandwidth & Concurrent users	1775 Mbps, 254 concurrent users	1775 Mbps, 254 concurrent users
Ports	1*GE, 1*SFP	1*GE, 1*SFP

# AC integrates switch function based on ASIC **DCN**



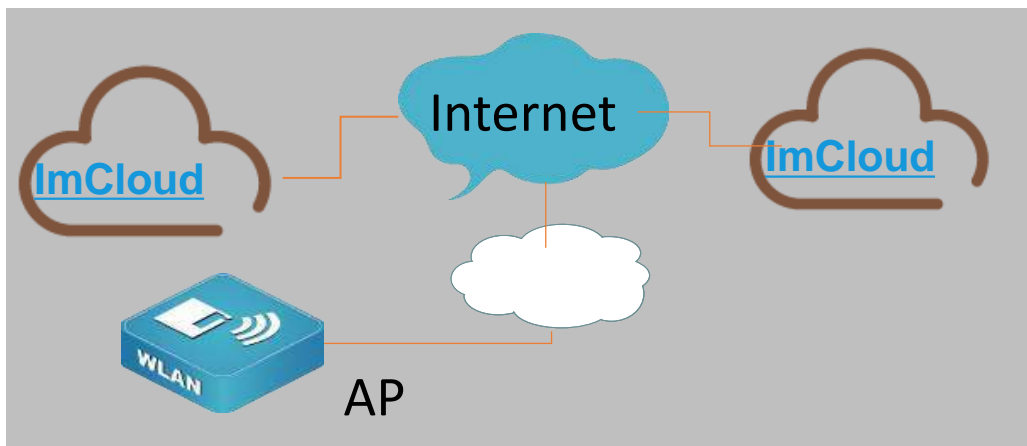
ASIC Based Forwarding  
Trunk deployment mode



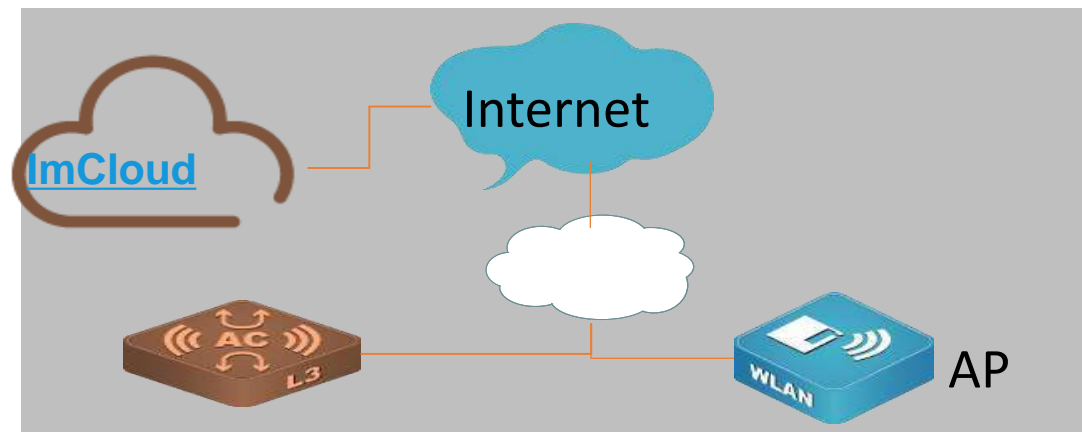
ASIC Based Forwarding  
Trunk deployment mode

# Many types of AC redundancy

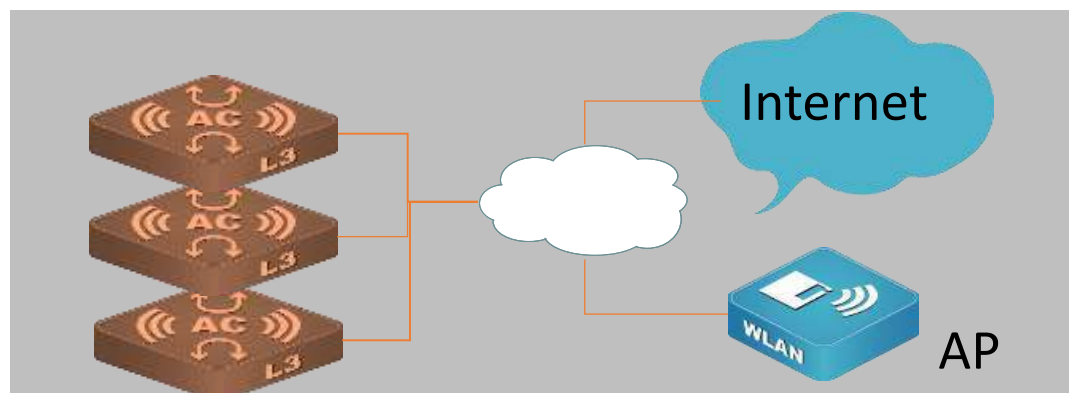
ImCloud 1+1



ImCloud +local AC

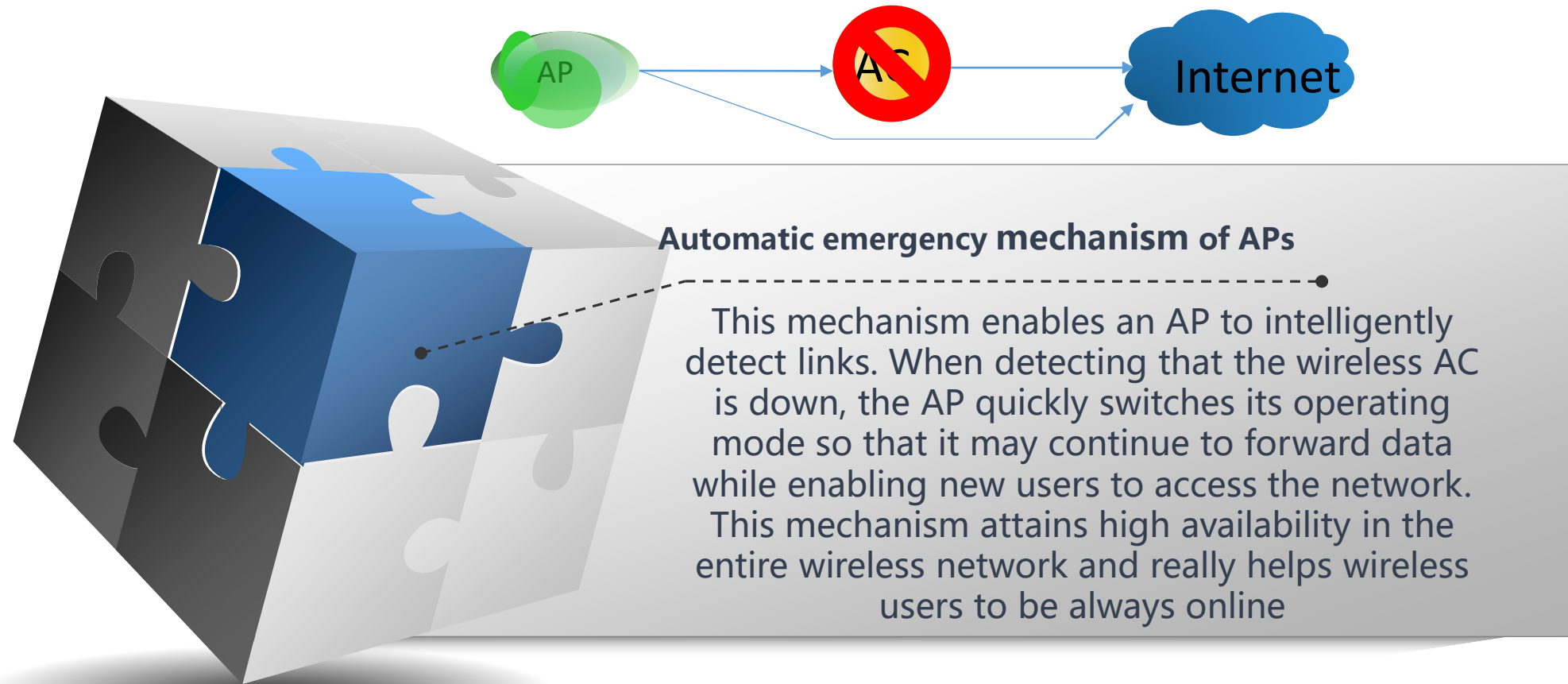


local AC N+M





# Emergency Mechanisms



# DCN Product Level

**DCN**



# Competitor Overview-Inwall AP



Specifications	DCN	H3C	Ruijie
	WL8200-XW2	WA6320H	RG-AP180
In-wall dual-band AP Transmit power ≥20dBm 802.11ax, 2x2 MU-MIMO	★★★	★★★	★★★
2 RF modules 4 Spatial streams Maximum wireless rate 1775Mbps	★★★	★★★	★★★
2.4G: 2 spatial stream 5G: 2 spatial stream	★★★	★★★	★★★
32 SSIDs	★★★	★★★	★★★
Wall mounting, desktop, ceiling	★★★	★★★	★
1*GE copper ports, 4*GE LAN, 1*Pass-through port Power: ≤12W	★★★	★★★	★★

# Competitor Overview-Indoor AP



Specifications	DCN	HUAWEI	Cisco
	WL8200-X4	5761-21	9105
Dual-band Transmit power ≥20dBm	★★★	★★★	★★★
2 RF modules 6 spatial streams Maximum ≥2975Mbps	★★★	★★★	★★★
2.4G: 2 spatial stream 5G: 4 spatial stream	★★★	★★★	★★★
32 SSIDs	★★★	★★★	★★★
Wall mounting, desktop, ceiling	★★★	★★★	★★★
2*2.5GE copper ports, 2*USB, 1*RJ45 Power: ≤20W	★★★	★	★★★

# Competitor Overview-Outdoor AP

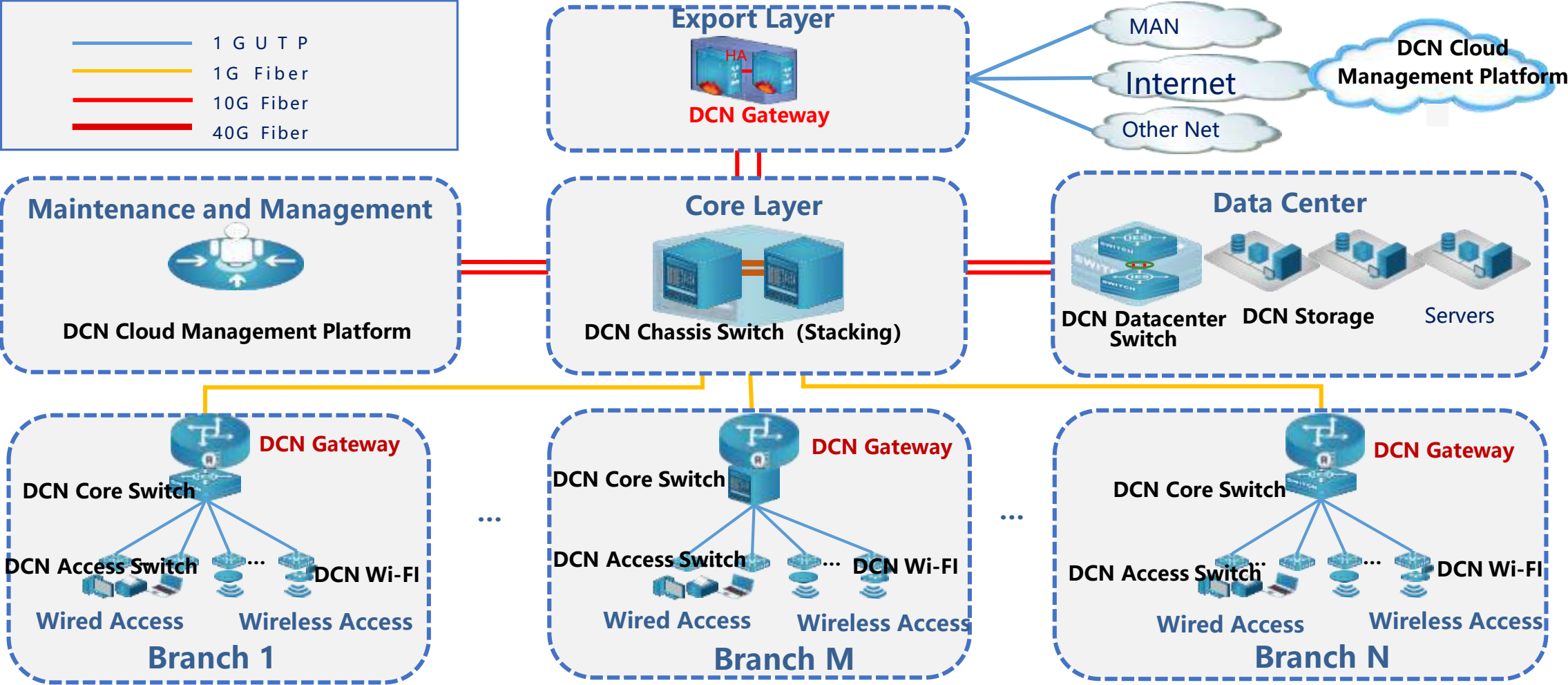


Items		DCN	Ruckus	UBNT
		WL8200-IT3	T310s	UAP-AC-M-Pro
Basic spec	2.4G&5G transmit power ≥27dBm	★★★	★★★	★★★
	802.11a/b/g/n/ac wave2	★★★	★★★	★★★
	2*2 MU-MIMO, 1.267Gbps	★★★	★★★	★★★
Hardware spec	10/100/1000BASE-T ports ≥2	★★★	★★	★★★
	Gigabit fiber port ≥1	★★★	★★★	★★★
	Internal antenna, gain ≥10dBi	★★★	★★★	★★★
	Blue-tooth	★★★	NA	NA
	SSID not less than 32	★★★	★★★	★★★

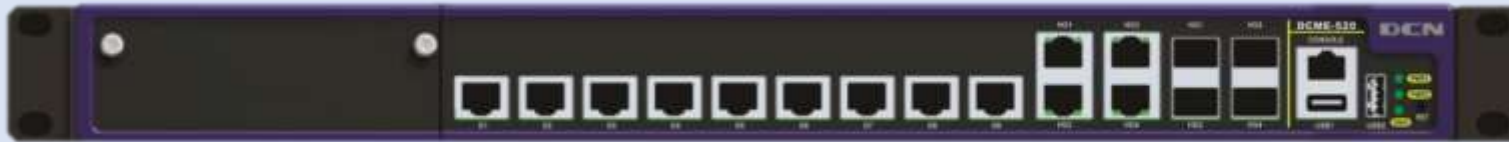
**04**

## **DCN Multi-Core Gateway**

# Gateway On LAN Edge



# DCME Multi Function Module---Save Cost for SMB Customer

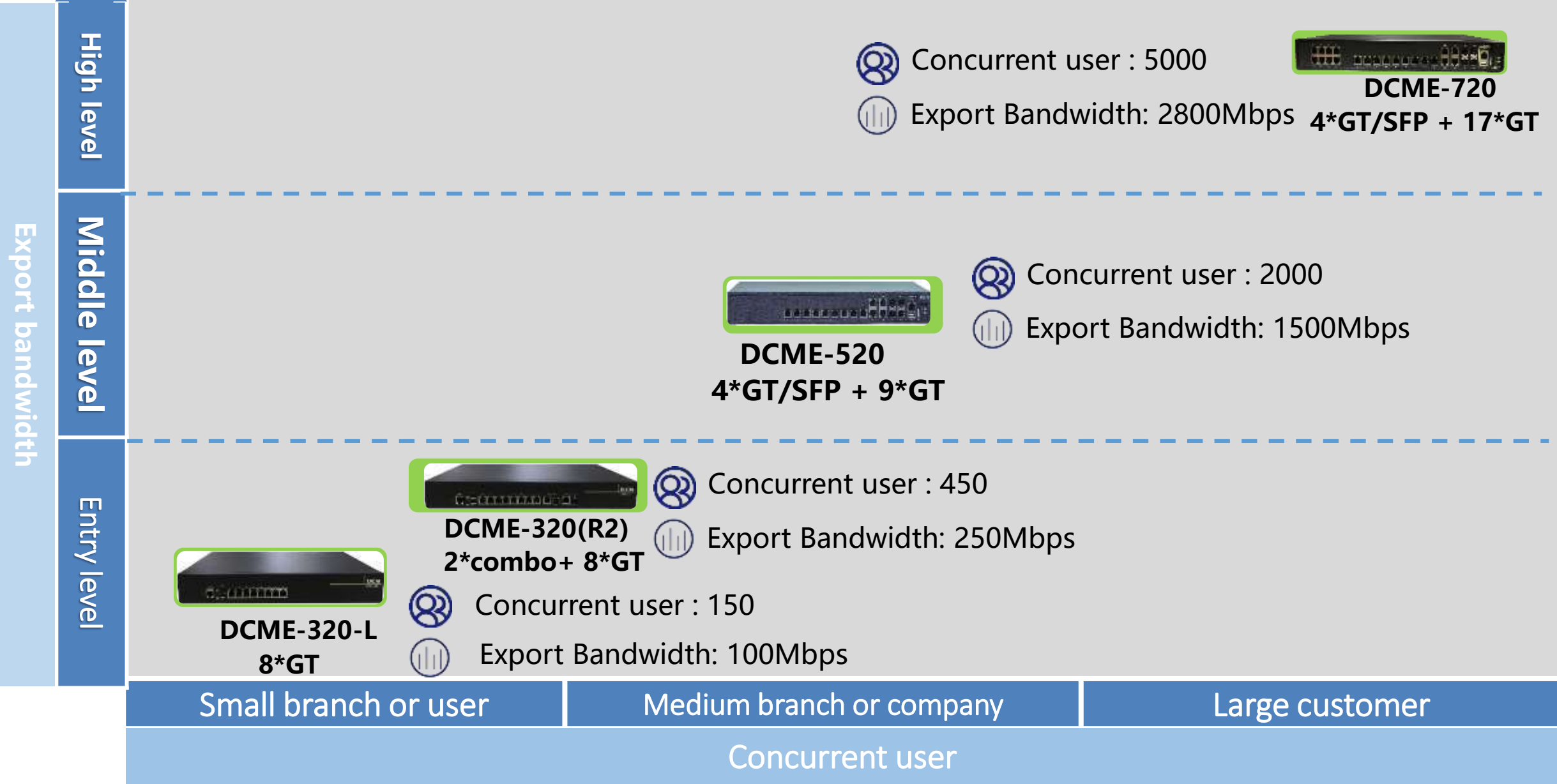


DCME  
DCN Multi-core Edge

- Manage APs: maximum manageable AP reach to 1024
- On-line behavior management, URL filtering
- Firewall function (IPSec & SSL VPN & NAT)
- Anti-attacks: SYN Flood, IP packet fragmentation attacks



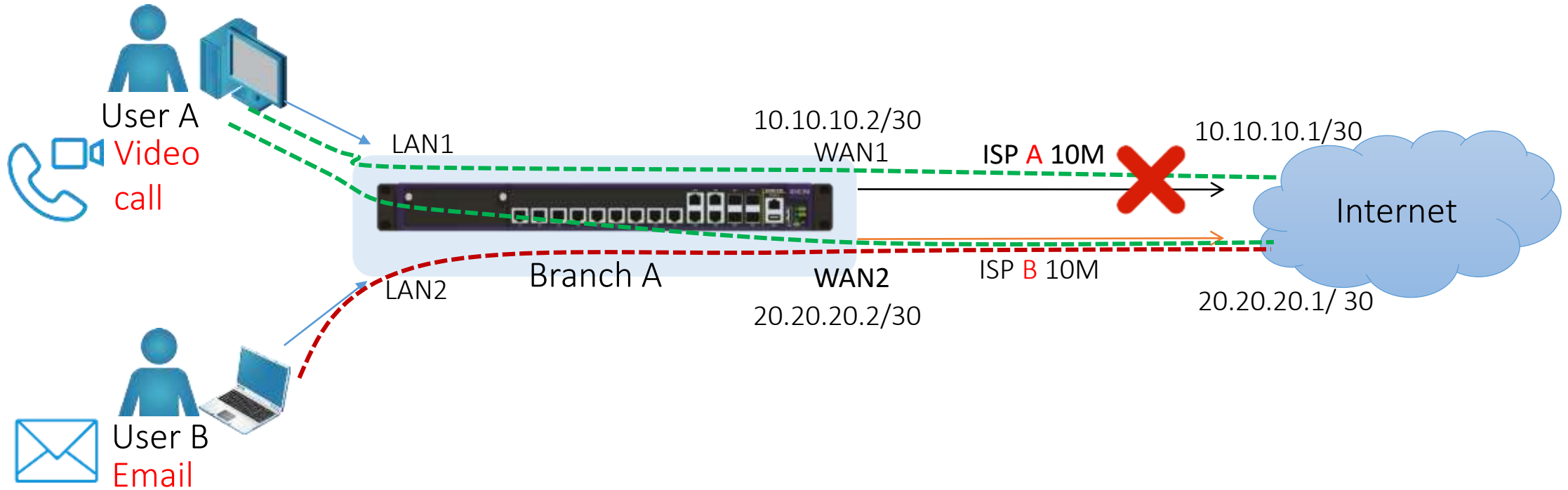
# DCN Multi-Core Gateway Family



# DCME Models & Specification

Item	DCME-320-L	DCME-320(R2)	DCME-520	DCME-720
Function	NAT/Firewall/Switch/VPN/AC			
DDR & storage	2G	2G + 64G	4G + 64G	8G + 64G
Ports	8GT	8 GT + 2 GE Combo	9 GT + 4 GE Combo	17GT+4GE combo
MGMT Ports	1 Console + 2 USB(2.0)			
AC	AC(Default)			
AP	2(Default)& 32(Max)	4(Default)& 64(Max)	12(Default)& 512(Max)	24(Default)& 1024(Max)
Temperature	0°C-40°C			
NAT	100K concurrent session	300K concurrent session	500K concurrent session	1000K concurrent session
Throughput	2Gbps(max)	2.8Gbps(max)	4.5Gbps(max)	6Gbps(max)
VPN	IPSec channels : 10 ; L2TP/SSL users: 10	IPSec channels : 20 ; L2TP/SSL users: 20	IPSec channels : 300 ; L2TP/SSL users: 100	IPSec channels : 1000 ; L2TP/SSL users: 500
Concurrent User	150	450	2K	5K
Routing	Static routing/RIP			

# Load Balance & Optimize QoS



Utilize multiple ISP internet bandwidth to increase the bandwidth & load balance while reduce failure risk of single line.

Optimize application QoS, increase the bandwidth efficiency

# Easy to Manage



Easy web-based management

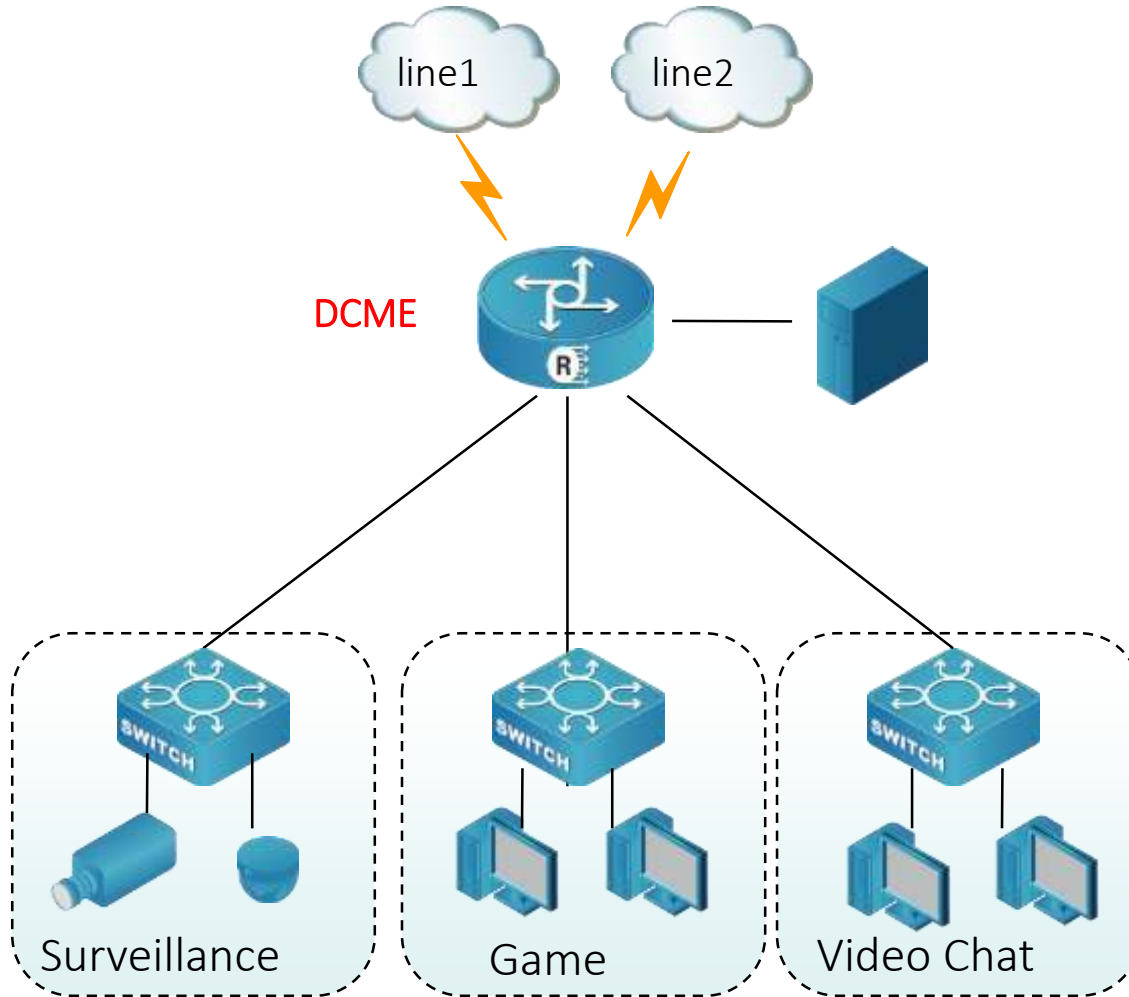
Visual configuration wizard

Friendly navigation & device status display

# DCME VS MikroTik

	DCN	MikroTik
High Reliability	★★★★	★★★
Ease of Use	★★★★★	★★
Traffic Control	★★★★	★★
Routing Protocol	★★	★★★★
OS Safety	★★★★	★★

# DCME Typical Scenario 1---Multi ISP



Hundred thousands NAT service  
(100-2800M throughput)

Multi ISP load balance, Multiple access  
lines guarantee bandwidth and avoid  
single point failure risk.

Anti-attack, clean network environment

Strong anti-attack feature. Block attacks like  
SYN Flood, DDoS, IP fragment, IP scanning and  
provide alarm at same time.

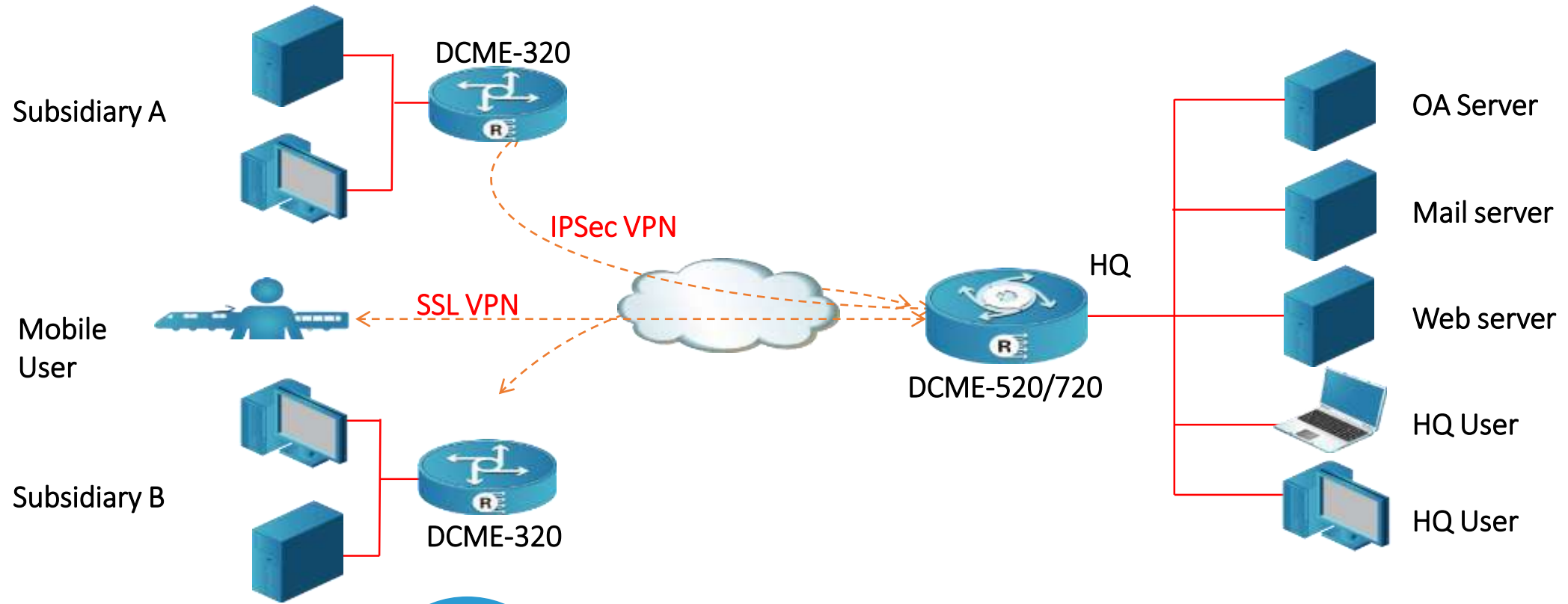
QoS, guarantee working or specific  
application bandwidth

Max 1024 AP configuration management,  
wireless user management;

User internet behavior management, URL  
filtering

Unified authentication, portal or QQ/Wechat

# DCME Typical Scenario 2---VPN Connection



Transmission Security

Access intranet



Low Network Cost

Save investment

**05**

## **Firewall family**



# DCN firewall family

## High-end 10G firewall



**DCFW-1800E-N9040**

- MIPS architecture, 4GE, 4SFP, 4Slot, up to 42\*1G, 16\*10G ports
- Encrypted traffic detection
- App identification 3000+, cloud application 600+
- One-time packet inspection, parallel monitoring

## High-end 10G firewall



**DCFW-1800E-N8420**

- MIPS architecture, 4GE, 4SFP, 2SFP+, 4 extended slots, up to 42\*1G, 18\*10G ports
- National Geographic-based threat identification and control
- In-depth detection and control by HTTP, FTP, SMTP, and POP3 protocols

## Mid-level GE Firewall



**DCFW-1800E-N7210**

- MIPS architecture, 6GE, 4SFP, 2 extended slots, up to 28 GE ports available
- Security Protection Policy Redundancy Detection
- Link load balancing, server load balancing

## Mid-level GE Firewall



**DCFW-1800E-N6008**

- MIPS architecture, 5GE, 4Combo port
- Dual power redundant design
- High Availability HA
- VPN supports national encryption algorithm
- IPV6 Ready

## Entry level GE firewall



**DCFW-1800E-N5005**

- MIPS architecture, 9GE
- 1U standard chassis
- High Availability HA
- VPN supports national encryption algorithm
- IPV6 Ready

## Entry level GE firewall



**DCFW-1800E-X3002**

- X86 architecture, 6GE, 2SFP
- 128G SSD hard drive
- Comes with one-year APP/URL/IPS/AV signature library license
- Four levels of nesting, nine levels of priority

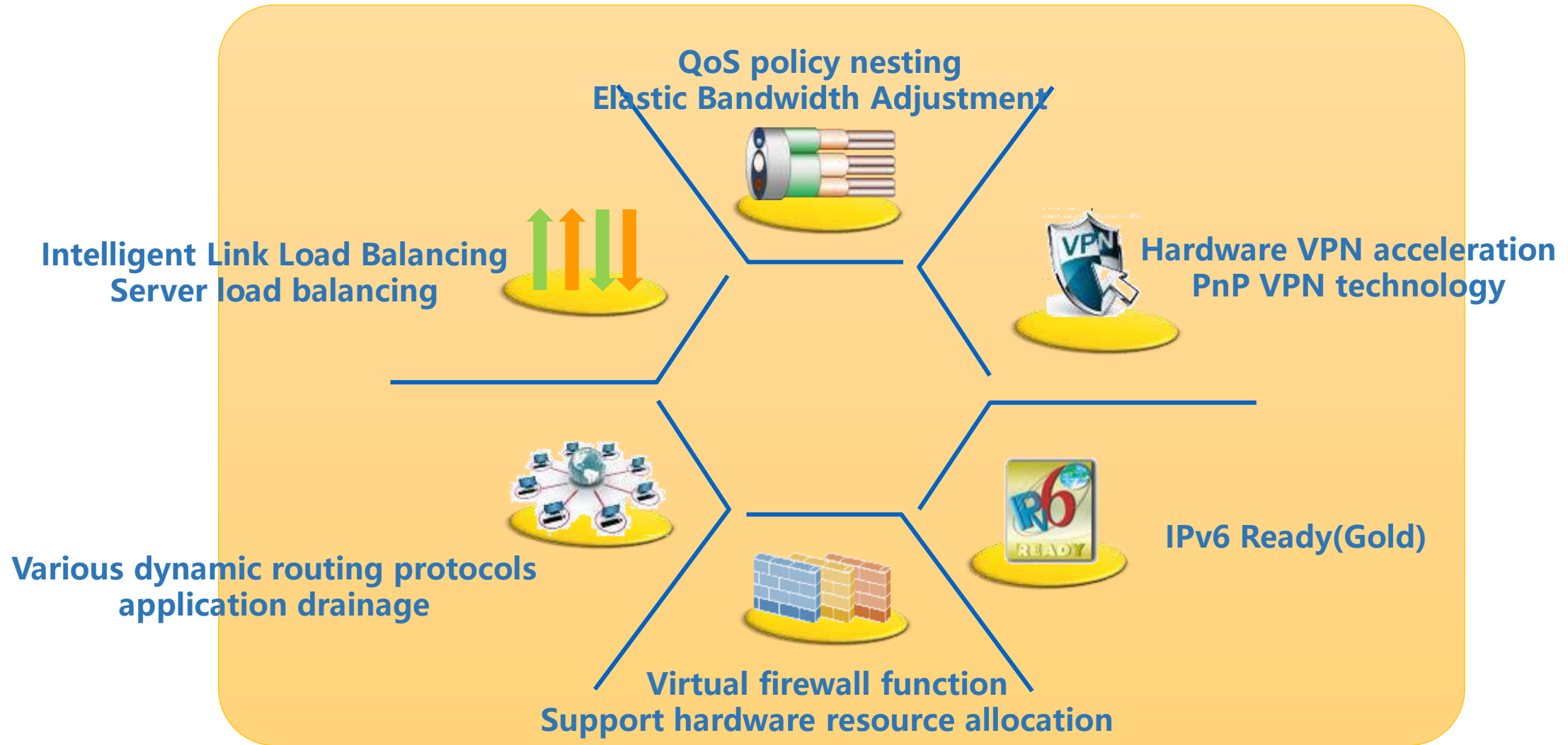
## Entry level GE firewall



**DCFW-1800E-N2002**

- MIPS architecture
- 9GE
- Comes with Wifi module, can support external 3G module
- 1U desktop device

# More features, more protection



## Refined application identification

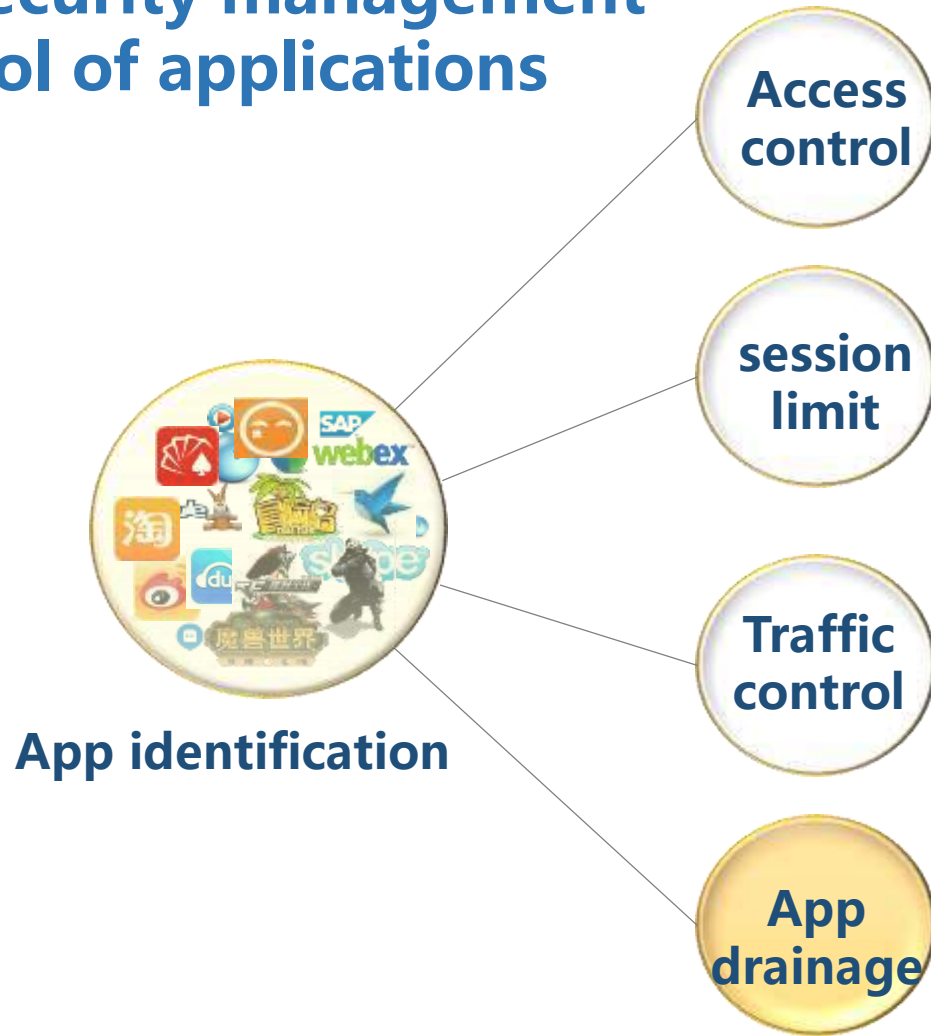
1300+ applications, including 200+ mobile application, auto updated regularly



as an example, more than 20 kinds of QQ applications

# Powerful Application Control

## Flexible security management and control of applications



Example: High-risk application with risk level 5

做如下控制

行为: ☒ 允许 ☐ 拒绝 ☐ 安全连接 Web 认证只能工作在trust-vr。

策略描述: (0~255)字符

应用限制: 风险等级为5的高风险应用 x

☐ 角色/用户/用户组限制

限制类型

会话类型: ☒ 会话数 1000 (0~1,048,576; 0表示不限制) ☐ 每5秒新建会话数 (1~1,048,576)

☒ 时间表 上班时间

应用QoS

策略名称: (1~31)字符

策略对象: P2P软件

上行带宽: 最小带宽 10~100,000,000 Kbps

源地址: 目的地址: 下一跳:

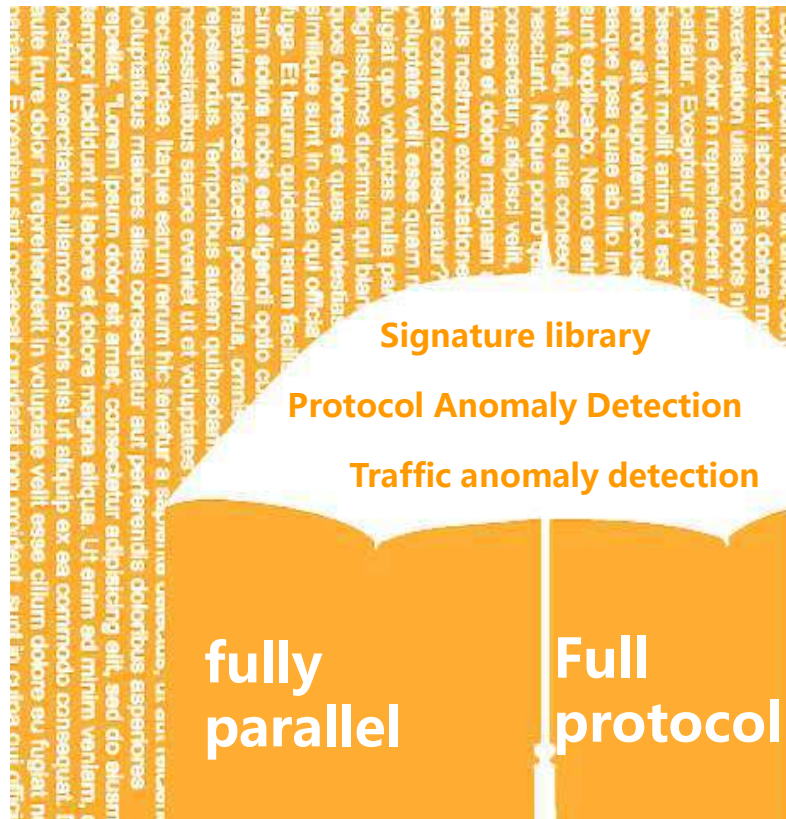
应用: 描述: 搜索

☒ 启用 ☐ 禁用 ☐ 移动 ☐ 策略绑定 ☐ 删除策略 ☒ 启用DNS重定向

策略路由名称	源地址	目的地址	服务	应用	时间表	下一跳
应用引流	Any	Any		P2P软件	下班时间	




# L2-L7 layer comprehensive security protection

High-performance IPS detection engine, precise defense, fast filtering



- ✓ **Anti-SQL injection, XSS cross-site scripting**
- ✓ **Anti-DoS/DDoS**
- ✓ **Bidirectional attack detection, full traffic protection**
- ✓ **Real-time updated intrusion prevention signature database**
- ✓ **Firewall linkage, fast attack blocking**

# Firewall N series family

High end - 10G		
Mid - GE		
entry - GE		
	Elementary and Secondary Schools, Branches and SMB	Secondary vocational/medium-sized enterprise/city and county government
		Vocational school/large enterprise/provincial government



# Product positioning/model

The industry positioning of each model with the recommended number of concurrent online users and the export bandwidth. (It is the recommend bandwidth in case the USG is not enabled. After the USG function is enabled, the performance will be degraded.)

Market positioning	models	The number of concurrent online	Recommended bandwidth
Primary and secondary school egress gateways, SMB egress, branch VPN gateways	N2002	150	80M
	N3002	150	80M
	N5005	800	150M
Middle and high vocational school egress device, medium and large enterprise egress device, central-side VPN gateway	N6008	2000	350M
	N7210	8000	800M
University, vocational education campus network egress device, education MAN egress device, large enterprise network/government network/data center, secondary operator egress device	N8420	20000	1.5G
	N9040	50000	5G

**06**

**Unified storage products**



# NCS1000 series unified storage products

**NCS1852**  
2U 24 disks  
memory 32G-512G



**NCS1854**  
4U 24 disks  
memory 32G-512G



**NCS1550**  
3U 16 disks  
memory 16G-32G



**NCS1550**  
4U 24 disks  
memory 16G-32G



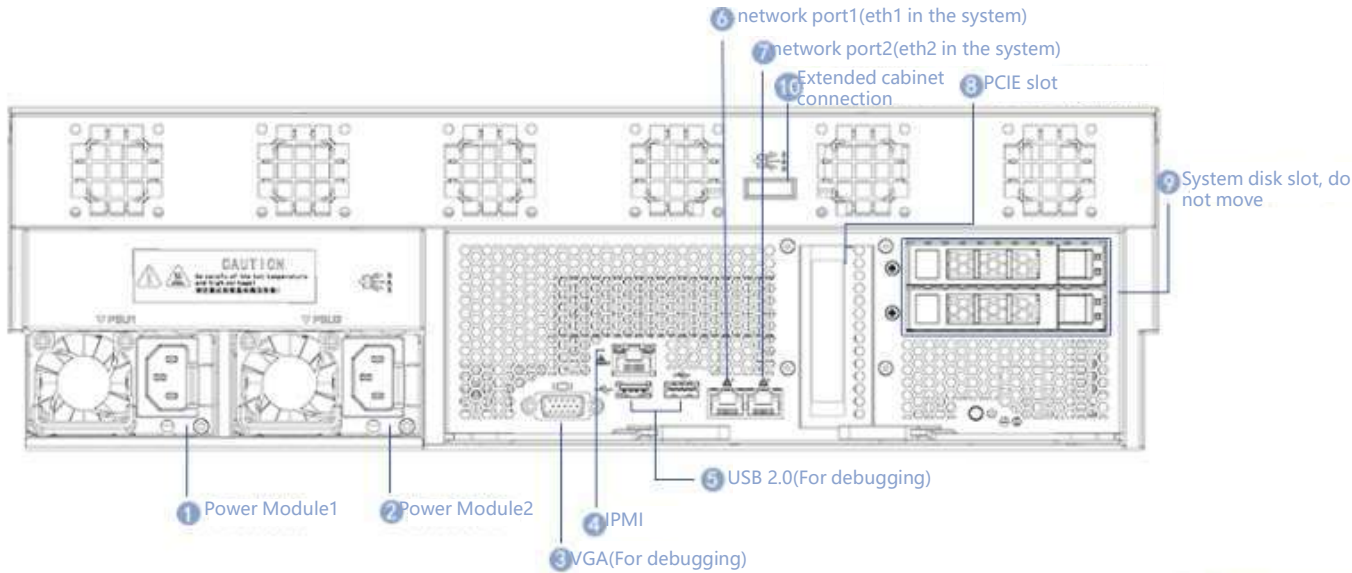
**NCS1550**  
4U 36 disks (24+12)  
memory 16G-32G



**NCS1550 dual-socket**  
2U 12 disks  
Pro version included vm

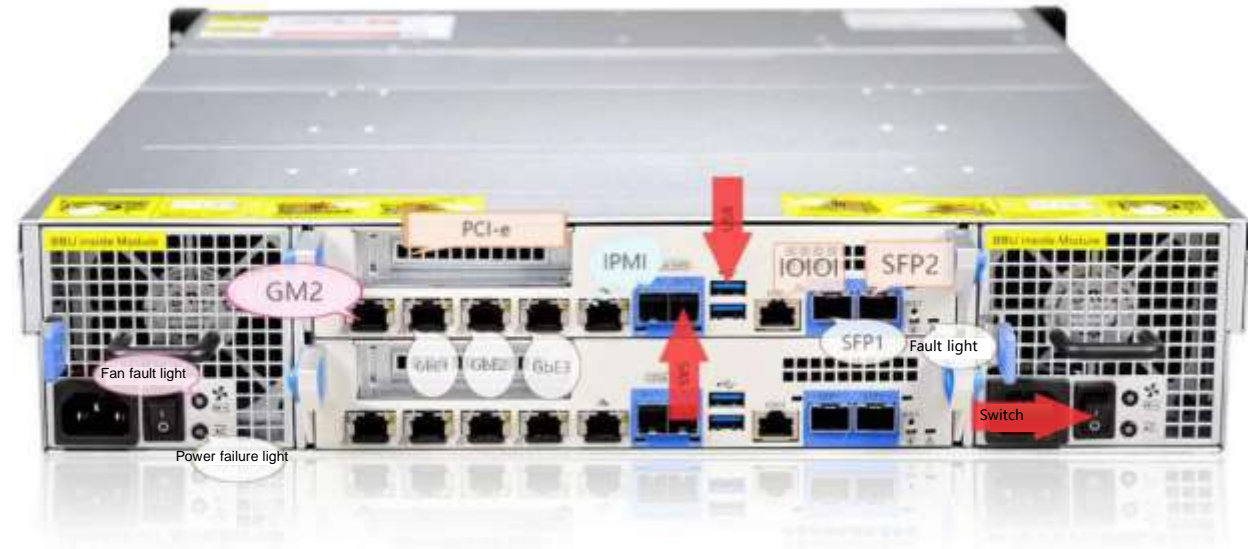


# NCS1000 series-interfaces



**Notes:** Single-control default in the new hardware has no SAS port and will occupy a unique PCIE slot if an SAS card can be added if needed.

If you need an expansion cabinet and additional cards, you can select a 2U dual-socket model



## ► Key technical indicators

Parameter	NCS1000 series	
Model	NCS1850	NCS1550
Number of controller	Dual-controller	Single-controller
Maximum disks	750 (2U 24 disks; 4U 24 disks)	80 3U 16 disks 120 4U 24 disks 132 4U 36 disks
Cache	<b>32GB-512GB (Flexible choice)</b>	<b>16GB-32GB (Flexible choice)</b>
Port	1Gbps/10Gbps Ethernet、10Gbps FCoE、8/16/32Gbps FC、56Gbps InfiniBand、SAS3.0 (rear interface, single port 4*12Gbps)	1Gbps/10Gbps Ethernet、10Gbps FCoE、8/16/32Gbps FC、56Gbps InfiniBand、SAS2.0 (rear interface, single port 4*6Gbps)
RAID Protecion	RAID0,RAID1,RAID10,RAID P1(RAID5),RAID P2(RAID6), <b>RAID P3(Triple check)</b>	
Storage protocols supported	<b>FCP、IB、FCoE、iSCSI、NFS、CIFS/SMB、HTTP、FTP</b>	
Data protection and resource efficiency improvement	Snapshot、One-click snapshot recovery、Flexible volume、Deduplication、Data compression、Volume clone、WORM、Remote data mirroing、Intelligent layering、Storage virtualization	
Storage medium	SAS SSD: 1.92TB 3.84TB 7.68TB NVME SSD: 1.92TB 3.84TB 7.68TB NL SAS : 10TB 12TB 14TB 16TB	



**Email: [dcnsales@digitalchina.com](mailto:dcnsales@digitalchina.com) / [sales@dcnglobal.com](mailto:sales@dcnglobal.com)**

**My Email: [dmitryk@digitalchina.com](mailto:dmitryk@digitalchina.com)**

**Address: Russia, Moscow**