BDCOM Switch Family

Connecting a Better World

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Contents

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Switch Fundamentals

❖ What is a switch?

Switch is a networking hardware that connects devices on a computer network by using MAC addresses to receive and forward data to the destination device

Switch is running at the data link layer (layer 2) of the OSI model. Some switches can also forward data at the network layer (layer 3) by additionally incorporating routing functionality. Such switches are commonly known as layer-3 switches

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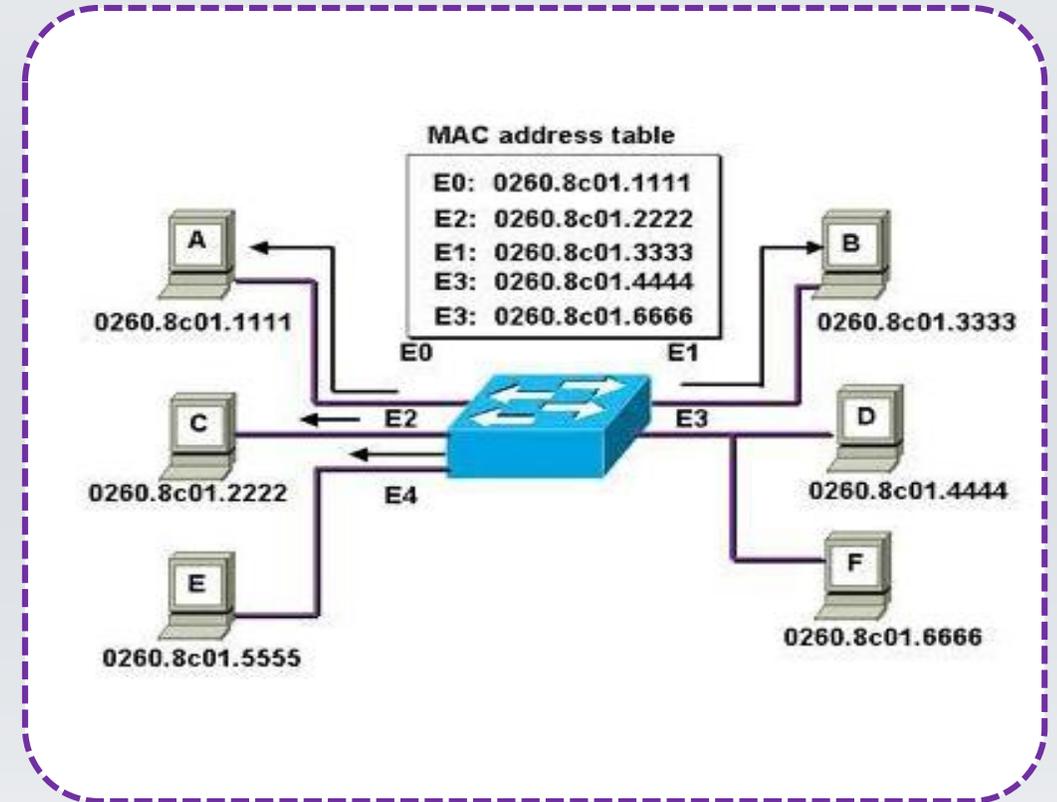
❖ Classified by hardware structure

➤ According to the hardware structure, switch can be generally divided into three types: Desktop switch, Rack-mounted switch and chassis switch. Din-rail switch are commonly applied in industrial cases.
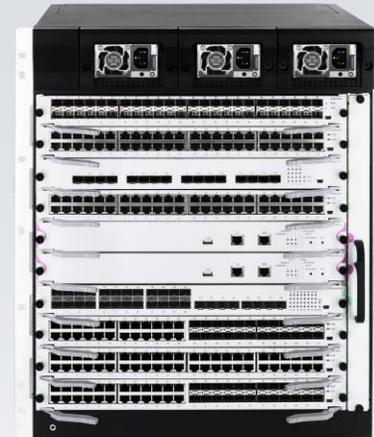
Desktop switch

Din-rail switch

Rack-mounted switch

Chassis switch

4

Switch Fundamentals-Port Bandwidth

❖ Classified by Port Bandwidth

- Switch port bandwidth; refers to the physical port rate (throughput), the number of bits passed per second.

| Item	Port rate	Type	Application
100M switch	100Mbps	Optical/RJ45	Access Layer
Gigabit switch	1Gbps	Optical/RJ45	Aggregation Layer, Access Layer
10G switch	10Gbps	Optical/RJ45	Core Layer, Aggregation Layer, Access Layer
40G switch	40Gbps	Optical	Core Layer, Aggregation Layer
100G switch	100Gbps	Optical	Core Layer,
2.5G switch	2.5Gbps	Optical/RJ45	Aggregation Layer, Access Layer
25G switch	25Gbps	Optical	Core Layer, Aggregation Layer,

Switch Fundamentals-Application Layer

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Classified by application Layer
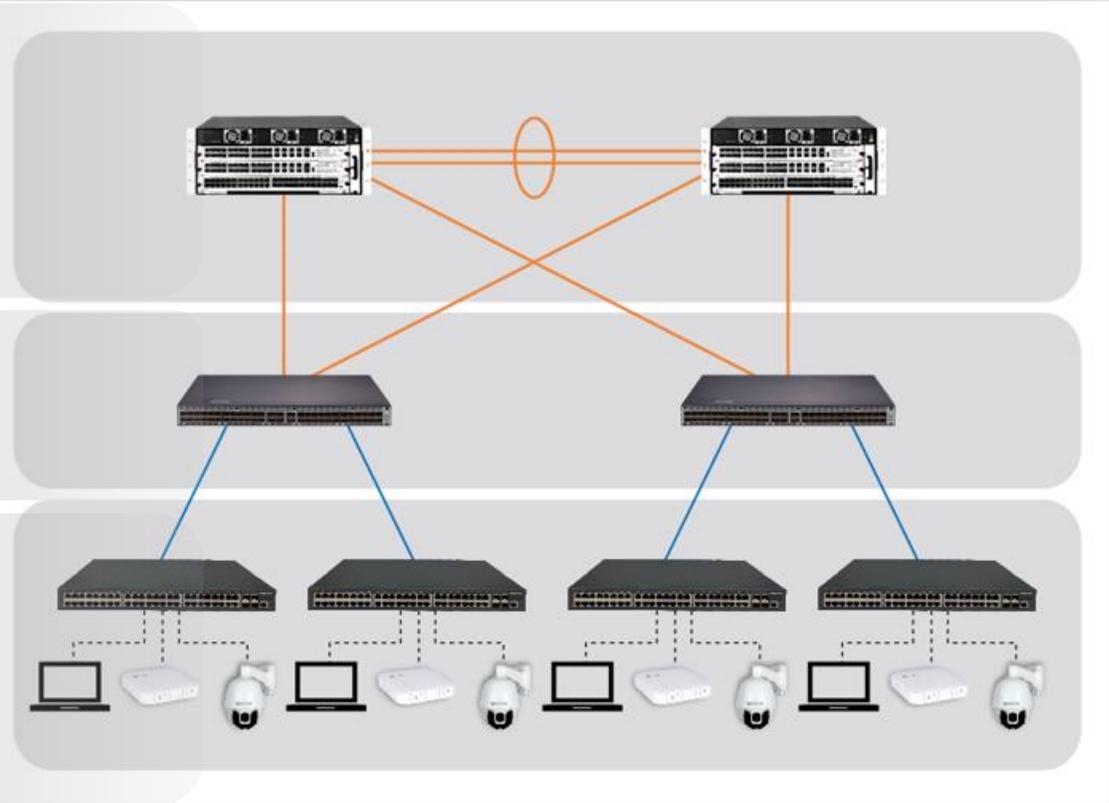
Think

What are differences between each layer?

Core layer

Aggregation layer

Access layer

Switch Fundamentals-Protocol Layer

❖ Classified by protocol layer

- Unmanaged switch

- Layer 2 switch

- Layer 3 switch

Item	Features	Network protocol	Routing	Application
Unmanaged switch	Plug and play	not support	not support	Access layer
Layer 2 switch	Managed	Layer 2 protocol	not support	Aggregation Layer, Access Layer
Layer 3 switch	Managed	Layer 2 and 3 protocols	support	Core Layer, Aggregation Layer

Switch Fundamentals-Power over Ethernet

❖ Classified by Application Features-Power Supply

PoE switch: (Power over Ethernet switch) refers to the switch that transmits data to IP-based terminals (IP phones, wireless APs, IP cameras, etc.) and also supply DC power to these devices through LAN cable

Think	• Factors Affecting PoE Switch Cost?		

Items	PoE	PoE+	PoE++
Power supply standard	802.3af	802.3af/at	802.3bt
Port maximum output power	15.4W	15.4/30W	60/90W
Transmission cabling	4-core	4-core	8-core
Teminal devices	IP camera, wireless AP, IP phone, sub base station	PTZ camera, High-power wireless AP, Micro base station	high power camera, high power wireless base station, PoE lighting

Switch Fundamentals-SFP/RJ45 port

❖ SFP/RJ45 Combo port

Combo port, also called SFP/RJ45 Combo port, is composed of two Ethernet ports (one SFP port and one RJ45 port) on the device panel. Users can choose one of them to use according to the actual networking situation, but the two cannot work at the same time.

RJ45 (Copper) — SFP (Optical)

1-Port RJ45 CLI

8-Port Gigabit
SFP/RJ45 Combo

16-Port Gigabit SFP
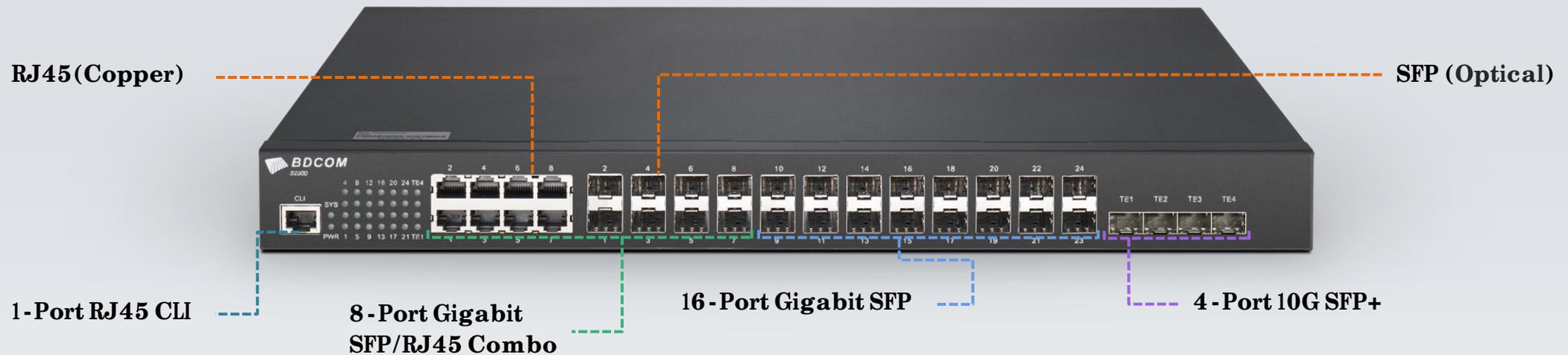
4-Port 10G SFP+

Model	Specification
S2900-24S8C4X	16-port Gigabit SFP + 8-port RJ45/SFP Combo + 4-port 10G SFP+

Switch Fundamentals-Optic cable interface

❖ Fiber optic cable interface type

Interface type	PoE	Main purpose	Picture
LC Interface	snap-on small square type	switch, router	LC接口
FC Interface	Round thread type	Distribution frame, reinforced port	FC接口
ST Interface	Round Snap Type	Distribution frame, reinforced port	ST接口
SC Interface	snap-on large square type	PON, fiber optic transceiver	SC接口

Switch Fundamentals-Optical Module

❖ Ethernet optical module(tansceiver)

➢ The optical module is composed of optoelectronic components, functional circuits and optical interfaces. The optoelectronic components include two parts: transmitting and receiving. The function of the optical module is to convert between optical and electrical signals. The sending end converts the electrical signal into an optical signal. After transmission through the optical fiber, the receiving end converts the optical signal into an electrical signal.

Item	Rate
SFP	100Mbps
GSFP	1G/2.5Gbps
SFP+	10Gbps
SFP28	25Gbps
QSFP+	40Gbps
QSFP28	100Gbps

Switch Fundamentals-Optical Module

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❖ Ethernet optical module

➢ Classified by mode: single-mode, multi-mode

Optical module	Fiber Size	Optical power loss	Transmission distance	Illuminator	Transmission bandwidth
Single-mode	9-10/125μm	low	Up to 150-200km	Diode or laser as light source	high
Multi-mode	50/125μm-62.5/125μm	high	Up to 5km	VCSEL or LED as light source	low

➢ Classified by transmission: single fiber, dual fiber

Optical module	Fiber interface	Wavelength	Application	Characteristics
single fiber bidirectional	1	1310 or 1550	use in pairs	An optical fiber transmits and receives data
dual-fiber bidirectional	2	1310 and 1550	no need to use in pairs	Two optical fibers send and receive data

Contents

1 Switch Fundamentals

2 Switch Family

3 Typical Solution

Switch Family
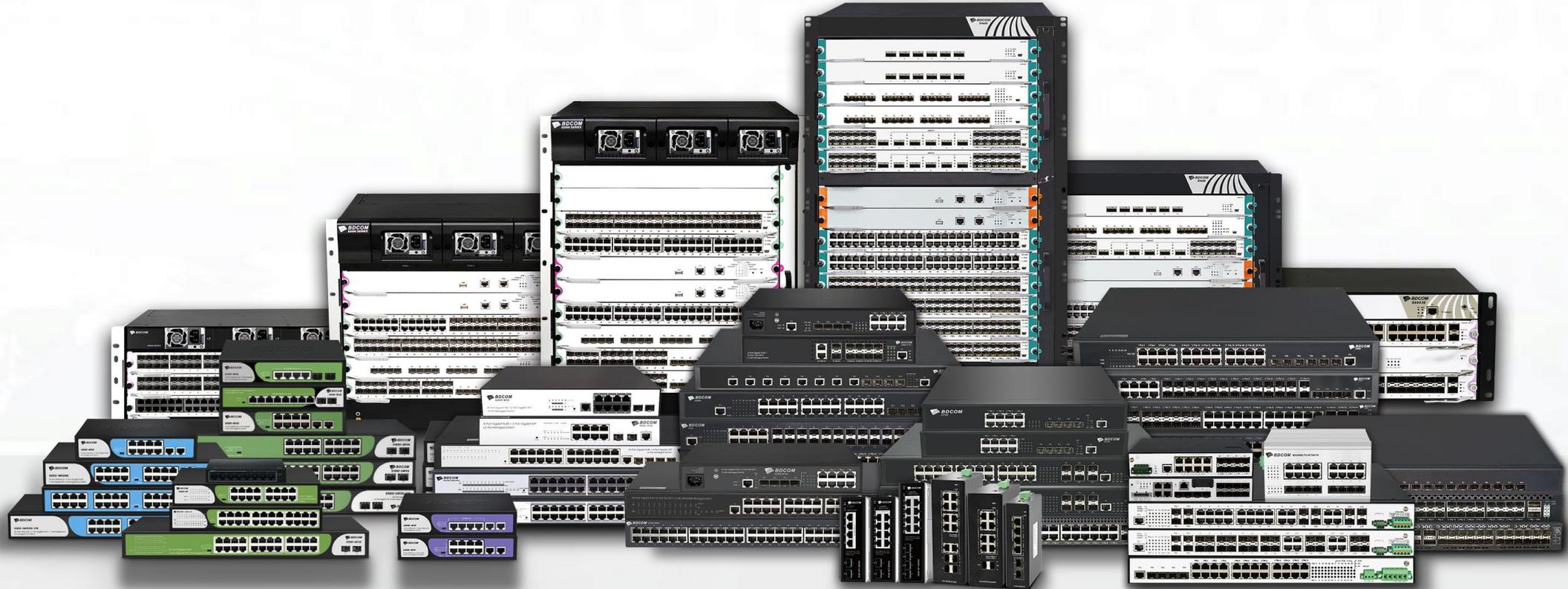
Data Center Switch
Core: S9600, S8500E, S8003E
Full 10GE: S5800/S5600

Layer-3 Series Switch
S5700/PoE, S3900/PoE,
S2900/PoE

Access Switch
S2500/PoE, S1500/PoE,
S1200/PoE, S1000/PoE

Industrial Switch
IES200-L25, IES200-V25,
IES200-LS, IES2000-T,
IES2000

One-stop switching solution from core to access network, Carrier-level stability & functionality, most user-friendly, cost-effective and trust-worthy

BDCOM Switch Family

2.1 Chassis Core Switch

2.2 Enterprise-grade L3 Routing Switch

2.3 Intelligent L3-lite Managed Switch

2.4 PoE Switch

2.5 Industrial Ethernet Switch

Carrier-grade Core Switch-S9600 Series

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S9614   S9608

Application Scenario	Service Characteristics
Large-and-medium campus scenario	over-high bandwidth and high expansibility complicated service types combination of multiple layer 2 and layer 3 protocols
High-speed data switching scenario	up to 576 10GE or 72 100G interfaces switch chip large cache satisfy the requirement of data center, video processing data center and other high-speed data switching scenarios
ISP MAN environment	100G MAN aggregation Ethernet ring enhance the aggregated interconnection bandwidth and satisfy the requirement of increasing ISP service

High expansibility

- Single line card：
- 48*1G/10G
- 4*40G
- 6*100G
- 48*1G PoE

High performance

- CrossBar architecture
- non-blcok switching, high performance and low latency

Virtualization

- BVSS data center virtualization
- simple networking and shared switching resources
- simple operation and cluster access

Carrier-grade Core Switch-S9600 Series

● Chassis+Power+MSU+Line Card

	Model		Model
Chassis	S9608	Line Card	LS96-24GS24GT
			LS96-48GS
	S9614		LS96-48GT
			LS96-48GT-POE
Power	LS96-PWR-AC		LS96-24GS8TS
			LS96-24GT8TS
	LS96-PWR-PoE		LS96-16TS
MSU	LS9608-MSU		LS96-4QS
			LS96-48TS
	LS9614-MSU		LS96-6CF
			LS96-24TS6QS

Enterprise-grade Core Switch-S8500E Series

S8500E

Large campus and enterprise core switch

Item	S8503E	S8506E	S8510E
Size	4U	9U	12U
Main control slots	2	2	2
line card slots	3 (2 business MSUs)	4	8
Ports	8TE+120GE 16TE+96GE 24TE+72GE 32TE+48GE	16*40GE 64*10GE 192*GE	32*40GE 128*10GE 384*GE
System power redundancy	DC: 1＋1+1 AC: 1＋1+1 Support AC/DC mixed insertion	DC: 1＋1+1 AC: 1＋1+1 Support AC/DC mixed insertion	DC: 1＋1+1 AC: 1＋1+1 Support AC/DC mixed insertion

- Oriented for 10GE platform and satisfy the requirement of carrier-level capacity and expandability
- 99.999% high-usability
- Innovative BVSS (BDCOM Virtual Stacking System) technique
- Provide complete layer-2 and layer-3 multicast, routing and IPv6 solutions

Enterprise-grade Core Switch-S8500E Series

- Chassis+Power+MSU+Line Card

	Model		Model
Chassis	S8510E	Line Card	ES85-24GS24GT
	S8506E		ES85-48GS
	S8503E		
Power	PA350/PA550		ES85-48GT
	PD350/PD550		ES85-24GS8TS
MSU	ES85-MSU-I		
	ES85-MSU-II		ES85-24GT8TS
Hybrid MSU (S8503E)	S8503E-MSU-24GT8TS		ES85-4QS
	S8503E-MSU-24GS8TS		ES85-16TS

SMB-grade Core Switch-S8003E

S8003E

- Multiple options of 10G line card with different port combination
- Rich features and friendly interface for L2 and L3 switching Config
- Carrier-grade stablity for future expansion

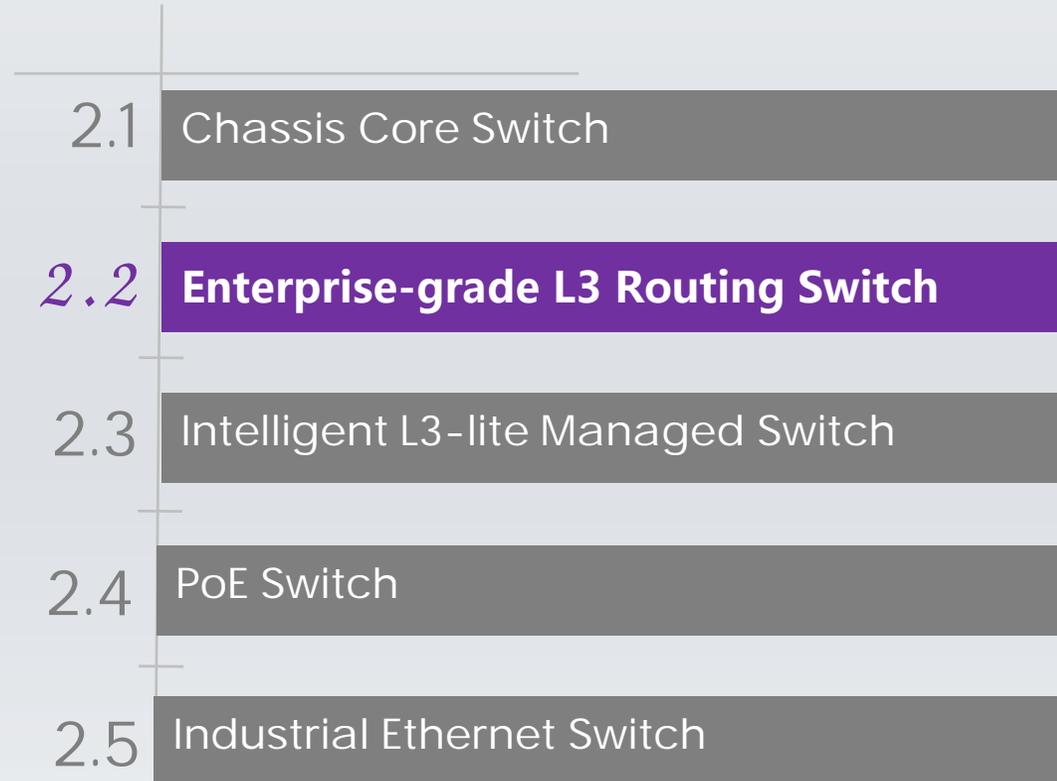| Chassis	
S8003E	Including Fan trays, 2 power slots excluding power supply, 3 line card slots
Power supply	
S8000-PA350	AC-220V 350W
S8000-PD350	DC-48V 350W
Line card	
LS8000-24S2X	24-Port Gigabit SFP + 2-Port 10G SFP+
LS8000-24T2X	24-Port GigabitRJ45 + 2-Port 10G SFP+
LS8000-48S2X	48-Port Gigabit SFP + 2-Port 10G SFP+
LS8000-48T2X	48-Port Gigabit RJ45 + 2-Port 10G SFP+
LS8000-24T24S2X	24-Port Gigabit RJ45 + 24-Port Gigabit SFP + 2-Port 10G SFP+
LS8000-8X	8-Port 10G SFP+

BDCOM Switch Family

2.1 Chassis Core Switch

2.2 Enterprise-grade L3 Routing Switch

2.3 Intelligent L3-lite Managed Switch

2.4 PoE Switch

2.5 Industrial Ethernet Switch

Enterprise-grade L3 Managed Switch

Layer-3 10GE Switch

- S3900-24T6X
- S3900-24S8T6X
- S3900-48M6X
- S3900-48S6X
- S3900-48T6X
- S3900-24P6X
- S3900-48P6X

Layer-3 Multi-Giga Switch

- S5700-8ET4Xv1
- S5700-8EP4X-120
- S5700-8EP4X-370
- S5700-24ET6Xv1
- S5700-24EP6X-370/760
- S5700-48ET4X2Q

Layer-3 10G/100G Switch

- S5612E
- S5800-24X2C
- S5864HB
- S5800-16X8Y4C

Layer-3 10G/100G Switch

- S5800-32C-X
- S5800-48X8C
- S5800-48Y8C
- S5800-48X8C-X
- S5800-48Y8C-X

- **2.5GE** **10GE** **40GE** **100GE**

Data-center Switch-S5800 Series

● High-density data-center network switch

- ● Enhanced virtualization
- ● Data center technology
- ● VxLAN/EVPN
- ● SDN(Netconf/Yang)

- ● Broadcom and Centec flexible solution
- ● Dual hot-swappable power redundancy design
- ● Modularized fan, front-back air-flow

Model	Specification
S5800-48X8C	48-Port 10G SFP+ 8-Port 100G/40G QSFP28(Centec)
S5800-48Y8C	48-Port 25G/10G SFP28 + 8-Port 100G/40G QSFP28(Centec)
S5800-48X8C-X	48-Port 10G SFP+ 8-Port 100G/40G QSFP28(Broadcom)
S5800-48Y8C-X	48-Port 25G/10G SFP28 + 8-Port 100G/40G QSFP28(Broadcom)
S5800-32C-X	32-Port 100G/40G QSFP28 + 2-Port 10G SFP+(Broadcom)

10G/100G Switch-S5800 Series

- Service Provider POP/Enterprise aggregation network

- Enhanced virtualization
- MAN-level layer 3 function
- Data center technology

- Dual power redundancy design
- Modularized fan, front/back air-flow
- Power supply system status query and alarm

- The power supply system, fan system, mainboard are built with temperature sensor, which monitors the temperatures and alarms in real-time.

Model	Specification
S5612E	12-Port 10G SFP+, 8-Port Gigabit RJ45
S5800-24X2C	24-port 10G SFP+, 2-port 100G/40G QSFP28
S5864HB	48-Port 10G SFP+，2-port 40G QSFP+, 4-port 100G/40G QSFP28
S5800-16X8Y4C	16-Port 10G SFP+, 8-Port 25G/10G SFP28, 4-Port 100G/40G QSFP28

Multi-Giga Switch-S5700 Series

- Multi-Giga Switch, 1G/2.5G/10G/40G

- Enhanced virtualization
- Full layer 3 functions
- PoE/PoE+/PoE++
- 10G/40G uplink

Model	Specification
S5700-8ET4Xv1	8-port 2.5G RJ45 + 4-port 10G SFP+
S5700-8EP4X-120	8-port 2.5G PoE+ 4-port 10G SFP+, 120W PoE budget
S5700-8EP4X-370	8-port 2.5G PoE++ 4-port 10G SFP+, 370W PoE budget
S5700-24ET6Xv1	24-port 2.5G RJ45 + 6-port 10G SFP+
S5700-24EP6X-370	8-port 2.5G PoE++ 16-port 2.5G PoE+ 6-port 10G SFP+, 370W PoE budget
S5700-24EP6X-760	8-port 2.5G PoE++ 16-port 2.5G PoE+ 6-port 10G SFP+ , 760W PoE budget
S5700-48ET4X2Q	48-port 2.5G RJ45 + 4-port 10G SFP+ 2-port 40G QSFP+

Gigabit/10G Switch-S3900 Series

- Enterprise-grade L3 Managed
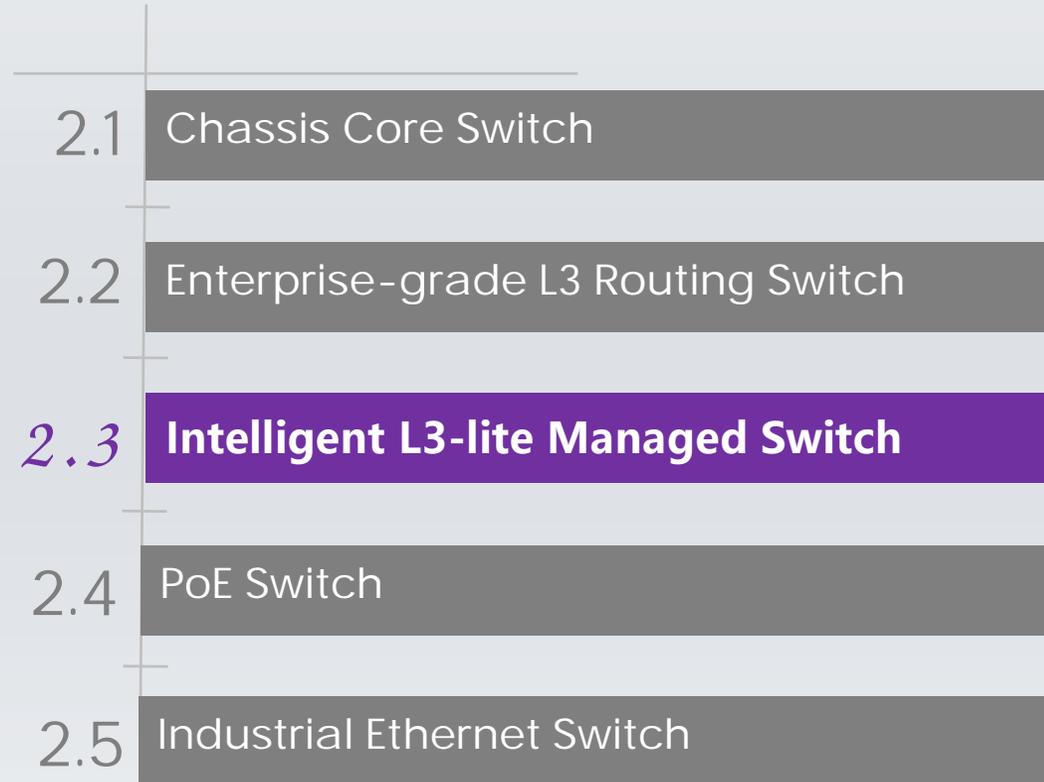
Uplink 60 Gigabit   **16 sets stacked**

- Enhanced layer 3 IPv6 Routing Switches
- Dual hot-swap modularized power supply
- uplink with 6 10G SFP+ ports
- large cache, video monitoring core
- high-level thunder-proof anti-static hardware design

Model	Specification
S3900-24T6X	24-port gigabit RJ45, 6-port 10G SFP+
S3900-24S8T6X	24-port gigabit SFP, 8-port gigabit RJ45, 6-port 10G SFP+
S3900-48M6X	24-port gigabit RJ45, 24-port gigabit SFP, 6-port 10G SFP+
S3900-48T6X	48-port gigabit RJ45, 6-port 10G SFP+
S3900-24P6X	24-port gigabit PoE+, 6-port 10G SFP+
S3900-48P6X	48-port gigabit PoE+, 6-port 10G SFP+
S3900-48S6X	48-port gigabit SFP, 6-port 10G SFP+

BDCOM Switch Family

2.1 Chassis Core Switch

2.2 Enterprise-grade L3 Routing Switch

2.3 **Intelligent L3-lite Managed Switch**

2.4 PoE Switch

2.5 Industrial Ethernet Switch

Intelligent L3-lite Managed Switch

Full-gigabit Managed Series

- S2500-8T2S
- S2500-24T4S

Full-gigabit Managed Series

- S2900-8T4X
- S2900-8S4C4X
- S2900-2T10X
- S2900-8TG4X

10GE Managed Series

- S2900-24T4X
- S2900-24S8C4X
- S2900-48T4X
- S2900-48T6X
- S2900-48S6X

L3-lite Switch-S2900 Series

16-units stacking

- Support static routing, RIP/OSPF and VRRP
- DHCP server and ERPS
- Optional dual power supply
- uplink with 4-6 10GE SFP+ ports
- large cache, video monitoring core
- high-level thunder-proof anti-static hardware design

Model	Specification
S2900-24T4X	24-port gigabit RJ45 + 4-port 10GE SFP+, optional dual power supplies
S2900-24S8C4X	16-port gigabit SFP + 8-port combo SFP/RJ45 + 4 10GE SFP+, optional dual power supplies
S2900-48T4X	48-port gigabit RJ45 + 4-port 10GE SFP+, optional dual power supplies
S2900-48T6X	48-port gigabit RJ45 + 6-port 10GE SFP+, optional dual power supplies
S2900-48S6X	48-Port gigabit SFP + 6-Port 10G SFP+

L3-lite Switch-S2900 Series

16-units stacking

- Support static routing, RIP/OSPF and VRRP
- DHCP server and ERPS
- Reserved dual power supply
- large cache, video monitoring core
- high-level thunder-proof anti-static hardware design

Model	Specification
S2900-8T4X	8-port gigabit RJ45 + 4-port 10GE SFP+
S2900-8S4C4X	4-port gigabit SFP + 4-port gigabit RJ45/SFP combo + 4-port 10GE SFP+
S2900-2T10X	2-port gigabit RJ45 + 10-port 10GE SFP+
S2900-8TG4X	8-port 10GE RJ45 + 4-port 10GE SFP+

L3-lite Switch-S2500 Series

● Full-gigabit switch   Cost-effective, layer-3 function, secure and reliable
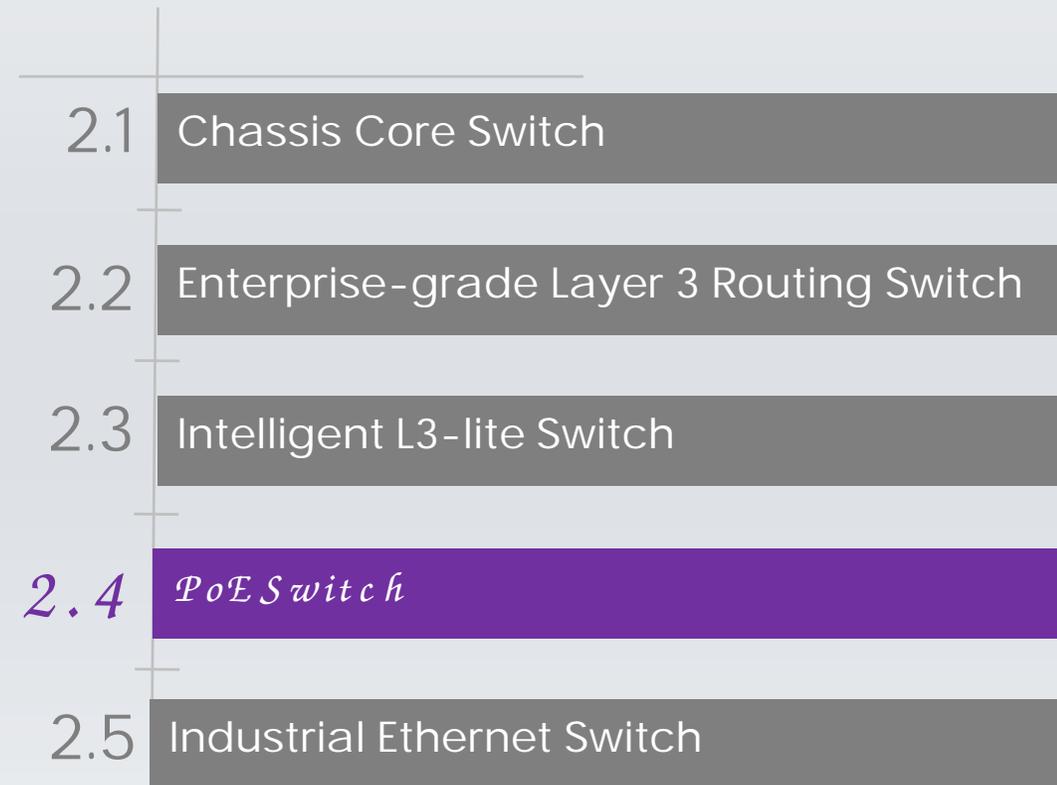

S2500-8T2S / S2500-24T4S

● Support Layer 3 routing

● DHCP server/relay/client, DHCP snooping

● ERPS

● ZTP configuration

● large cache, video monitoring core

● high-level thunder-proof anti-static hardware design

Product	Specification
S2500-8T2S	8-port gigabit RJ45 + 2-port gigabit SFP
S2500-24T4S	24-port gigabit RJ45 + 4-port gigabit SFP

BDCOM Switch Family

2.1 Chassis Core Switch

2.2 Enterprise-grade Layer 3 Routing Switch

2.3 Intelligent L3-lite Switch

2.4 PoE Switch

2.5 Industrial Ethernet Switch

PoE Switch

- The most comprehensive PoE product line with high reliability

Unmanaged

Managed

100M

Large cache and no jam
250M over-long transmission
All ports support PoE/PoE+
All ports support 802.3af full-load power supply

Multi-giga

1000 M

10G-UP

- Rich QoS Policies
- Complete PoE Power Supply Function
- Convenient Management and Maintenance

Full-giga

PoE Switch-Unmanaged PoE Switch

S1000P Series

S1200P Series

S1500P Series

Large cache, high anti-thunder level, safety and stability, rich functions, complete models

- Support multi-functional DIP switch

- Support 802.3af/at PoE/PoE+

- Support 802.3af full-load PoE power budget

- Support large cache, 4K high-definition full-load and no jam

- Support data transmission in 250m at the rate of 10Mbps

- Support built-in high-quality power supply and easy to install

- High-level thunder-proof anti-static design

- Operating temperature: -10-50℃

PoE Switch-L3-lite Full-gigabit PoE Switch

Large cache, high anti-thunder level, safety and stability, rich functions, complete models

Full-load power supply

S2500-P Series

S2500-16P4S

S2500-24P4C

S2500-8P2S

S2500-24P4S

S2500-48P4S-370

Full-gigabit, L3-lite managed PoE solutions

802.3af full-load power supply

Large cache, 4K high-definition full-load and no jam

Data transmission in 250m at the rate of 10Mbps

High-level thunder-proof anti-static design

-10-50℃ operating temperature

PoE Switch-L3-lite 10GE PoE Switch

S2900-8P4X

Supports static routing, RIP/OSPF and VRRP

DHCP server and EAPS/ERPS

8-port gigabit PoE+

4-port 10G SFP+ uplink

125W PoE power budget

Large cache for video monitoring

High-level thunder-proof and anti-static

hardware design

S2900-24P4Xv1

Supports static routing, RIP/OSPF and VRRP

DHCP server and EAPS/ERPS

24-port gigabit PoE+

4-port 10G SFP+ uplink

370W PoE power budget

Large cache for video monitoring

High-level thunder-proof and anti-static

hardware design

PoE Switch– L3-lite 10GE PoE Switch

S2900-48P6X

S2900-48P6X-370/760

Supports static routing, RIP/OSPF and VRRP

DHCP server and EAPS/ERPS

48-port gigabit PoE+

6-port 10G SFP+ uplink

AC+DC dual power input

370W@AC,   740W@DC PoE power budget

Large cache for video monitoring

High-level thunder-proof and anti-static

hardware design

Supports static routing, RIP/OSPF and VRRP

DHCP server and EAPS/ERPS

48-port gigabit PoE+

6-port 10G SFP+ uplink

370W/760W AC PoE power budget

Large cache for video monitoring

High-level thunder-proof and anti-static

hardware design

PoE Switch-L3 10GE PoE Switch

S2900-24P6X

S3900-24P6X

S3900-48P6X

Supports static routing, RIP/OSPF and VRRP

DHCP server and EAPS/ERPS

24-port gigabit PoE+

6-port 10G SFP+ uplink

Dual hot-swap power supply

Up to 760W PoE power budget

Large cache for video monitoring

High-level thunder-proof and anti-static

hardware design

OSPF/BGP layer 3 IPv4/IPv6 routing switch

24-port gigabit PoE+

6-port 10G SFP+ uplink

Dual hot-swap power supply

Up to 760W PoE power budget

Large cache for video monitoring

High-level thunder-proof and anti-static

hardware design

OSPF/BGP layer 3 IPv4/IPv6 routing switch

48-port gigabit PoE+

6-port 10G SFP+ uplink

Dual hot-swap power supply

Up to 760W PoE power budget

Large cache for video monitoring

High-level thunder-proof and anti-static

hardware design

PoE Switch-Multi-giga PoE Switch

S5700-8EP4X-120

802.3at/af(PoE+/PoE)

Layer 3 IPv4/IPv6 routing switch

8-Port 2.5G PoE+

4-Port 10G SFP+ uplink

120W PoE budget

S5700-8EP4X-370

802.3at/af/bt(PoE++/PoE+/PoE)

Layer 3 IPv4/IPv6 routing switch

8-Port 2.5G PoE++

4-Port 10G SFP+ uplink

370W PoE budget

S5700-24EP6X-370/760

802.3bt/at/af(PoE++/PoE+/PoE)

Layer 3 IPv4/IPv6 routing switch

8-Port 2.5G PoE++

16-Port 2.5G PoE+

6-Port 10G SFP+ uplink

370/760W PoE budget

BDCOM Switch Family

2.1 Chassis Core Switch

2.2 Enterprise-grade Layer 3 Routing Switch

2.3 Intelligent L3-lite Switch

2.4 PoE Switch

2.5 Industrial Ethernet Switch

Industrial Switch-IES200-LS Unmanaged Series

IES200-LS0005

IES200-LS1108

IES200-LS0050

IES200-LS1140

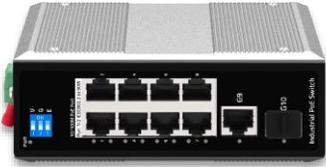IES200-LS0008

IES200-LS2040

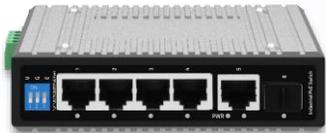IES200-LS0080

IES200-LS2080

Features
- 12−55V DC power input (dual pheonix terminal and single DC2.1 jack)
- Working temp. −40°C~75°C
- IP40 Protection

Model	Port
IES200-LS0005	5-Port 100M RJ45
IES200-LS0050	5-Port Gigabit RJ45
IES200-LS0008	8-Port 100M RJ45
IES200-LS0080	8-Port Gigabit RJ45
IES200-LS1108	8-Port 100M RJ45 + 1-Port Gigabit RJ45 + 1-Port Gigabit SFP
IES200-LS1140	4-Port Gigabit RJ45+ 1-Port Gigabit RJ45+ 1-Port Gigabit SFP
IES200-LS2040	4-Port Gigabit RJ45+ 2-Port Gigabit SFP
IES200-LS2080	8-Port Gigabit RJ45+ 2-Port Gigabit SFP

Industrial Switch-IES200-LS-P Unmanaged Series

IES200-LS1108P

IES200-LS1140P

IES200-LS2040P

IES200-LS2080P

Features

- 48~55V DC power input (dual pheonix terminal and single DC2.1 jack)
- Working temp. -40°C~75°C
- IP40 Protection

Model	Port
IES200-LS1108P	2-Port 100M PoE++ 6-Port 100M PoE+ 1-Port Gigabit RJ45 + 1-Port Gigabit SFP, 240W PoE budget
IES200-LS1140P	1-Port Gigabit PoE++ 3-Port Gigabit PoE+ 1-Port Gigabit RJ45 + 1-Port Gigabit SFP, 180W PoE budget
IES200-LS2040P	4-Port Gigabit PoE+ 2-Port Gigabit SFP, 120W PoE budget
IES200-LS2080P	1-Port Gigabit PoE++ 7-Port Gigabit PoE + 2-Port Gigabit SFP, 200W@60°C,120W@75°C;

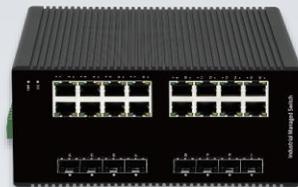# Industrial Switch-IES200-L25 Series

IES200-L25-4T2S

IES200-L25-8T2S

IES200-L25-8T4S

IES200-L25-16T8S

IES200-L25-24T4S

Software Features

- Static routing, RIP, OSPF
- STP/EAPS/ERPS
- DHCP server/client/relay

Hardware Features

- Heat dissipation: conduction
- Electrostatic protection: 15KV/8KV
- Port lightning protection: 6KV
- Power lightning protection: 4KV
- Power input: phoenix terminal and DC jack
- Redundant input

UL/CE/FCC IP40

EMC: 4A Web, CLI

Operating temperature: -40℃~+85℃

Model	Port	Installation	Management	Power
IES200-L25-4T2S	4 GE RJ45 + 2 GE SFP	DIN-rail	L3-lite	
IES200-L25-8T2S	8 GE RJ45 + 2 GE SFP	DIN-rail	L3-lite	12-55V DC power input (dual pheonix terminal and single DC2.1 jack)
IES200-L25-8T4S	8 GE RJ45 + 4 GE SFP	DIN-rail	L3-lite	
IES200-L25-16T8S	16 GE RJ45 +8 GE SFP	DIN-rail	L3-lite	
IES200-L25-24T4S	24 GE RJ45 + 4 GE SFP	DIN-rail	L3-lite	

Industrial Switch-IES200-L25 PoE Series

IES200-L25-4P2S

IES200-L25-8P2S

IES200-L25-8P4S

IES200-L25-8P4S-H

Software Features

- Static routing, RIP, OSPF
- STP/EAPS/ERPS
- DHCP server/client/relay

Hardware Features

- Heat dissipation: conduction
- Electrostatic protection: 15KV/8KV
- Port lightning protection: 6KV
- Power lightning protection: 4KV
- Power input: phoenix terminal and DC jack
- Redundant input

UL/CE/FCC

IP40

EMC: 4A

Web, CLI

Operating temperature: -40℃~+85℃

Model	Port	Installation	Management	Power
IES200-L25-4P2S	4 GE PoE+ 2 GE SFP	DIN-rail	L3-lite	48-55V DC power input (dual pheonix terminal and single DC2.1 jack)
IES200-L25-8P2S	8 GE PoE+ 2 GE SFP	DIN-rail	L3-lite	
IES200-L25-8P4S	8 GE PoE+ 4 GE SFP	DIN-rail	L3-lite	
IES200-L25-8P4S-H	2 GE PoE++ 6 GE PoE+ 4 GE SFP	DIN-rail	L3-lite	

Industrial Switch-IES200-V25 Series

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IES200-V25-2S4T
IES200-V25-2S4P

IES200-V25-2S8T
IES200-V25-2S8P

IES200-V25-4S10T
IES200-V25-4S2T8P

Software Features
- Default routing
- STP/EAPS/ERPS

Hardware Features
- Heat dissipation: conduction
- Electrostatic protection: 15KV/8KV
- Port lightning protection: 6KV
- Power lightning protection: 4KV
- Power input: phoenix terminal redundant input

UL/CE/FCC

IP40

EMC: 4A

Web, CLI

Operating temperature: -40℃~+85℃

Model	Port	Installation	Management	Power
IES200-V25-2S4T	2 GE SFP + 4 GE RJ45	DIN-rail	L2+	Dual DC input
IES200-V25-2S8T	2 GE SFP + 8 GE RJ45	DIN-rail	L2+	Dual DC input
IES200-V25-4S10T	4 GE SFP + 10 GE RJ45	DIN-rail	L2+	Dual DC input
IES200-V25-2S4P	2 GE SFP + 4 GE PoE+	DIN-rail	L2+	Dual DC input
IES200-V25-2S8P	2 GE SFP + 8 GE PoE+	DIN-rail	L2+	Dual DC input
IES200-V25-4S2T8P	4 GE SFP + 2 GE RJ45 + 8 GE PoE+	DIN-rail	L2+	Dual DC input

Industrial Switch-IES2000-T Series

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IES2000-TU8S8T/TW8S8P

IES2000-TU12S4T

IES2000-TU16T4S4X

Universal Power PTP

Software Features

- Default routing
- STP/EAPS/ERPS
- PTP/1588 protocols

Hardware Features

- Heat dissipation: conduction
- Electrostatic protection: 15KV/8KV
- Port lightning protection: 6KV
- Power lightning protection: 4KV
- Power input: phoenix terminal
  AC/DC input

UL/CE/FCC

IP40

EMC: 4A

Web, CLI

Operating temperature: -40°C~+85/75°C

Model	Port	Installation	Management	Power
IES2000-TU8S8T	8 GE SFP + 8 GE RJ45	DIN-rail/half-rack	L2+	Full scene AC/DC input
IES2000-TW8S8P	8 GE SFP + 8 GE PoE+	DIN-rail/half-rack	L2+	Industrial dual DC input
IES2000-TU12S4T	12 GE SFP + 4 GE RJ45	DIN-rail/half-rack	L2+	Full scene AC/DC input
IES2000-TU16T4S4X	16 GE RJ45 + 4 GE SFP + 4 10GE SFP+	DIN-rail	L3-lite	Full scene AC/DC input

Industrial Switch-IES2000 Series

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IES2000-5024S8C4X

IES2000-5024T8C4X

IES2000-5024P4X

Software Features

- Static routing, RIP/OSPF dynamic routing VRRP, DHCP Server
- BVSS, STP/EAPS/ERPS

Hardware Features

- Heat dissipation: conduction
- Electrostatic protection: 15KV/8KV
- Port lightning protection: 6KV
- Power lightning protection: 4KV
- Power input: phoenix terminal redundant input
- Relay alarm: Phoenix terminal output

UL/CE/FCC   IP40

EMC: 4A   Web, CLI

Operating temperature: -40°C~+85°C

Model	Port	Installation	Management	Power
IES2000-5024T8C4X	16 GE RJ45 + 8 GE RJ45/SFP Combo + 4 10GE SFP+	Rack-mount	L3-lite	Industrial dual AC input
IES2000-5024S8C4X	16 GE SFP + 8 GE RJ45/SFP Combo + 4 10GE SFP+	Rack-mount	L3-lite	Industrial dual AC input
IES2000-5024P4X	24 GE PoE+ 4 10GE SFP+	Rack-mount	L3-lite	Industrial dual AC input

Contents

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Typical Campus Network Solution
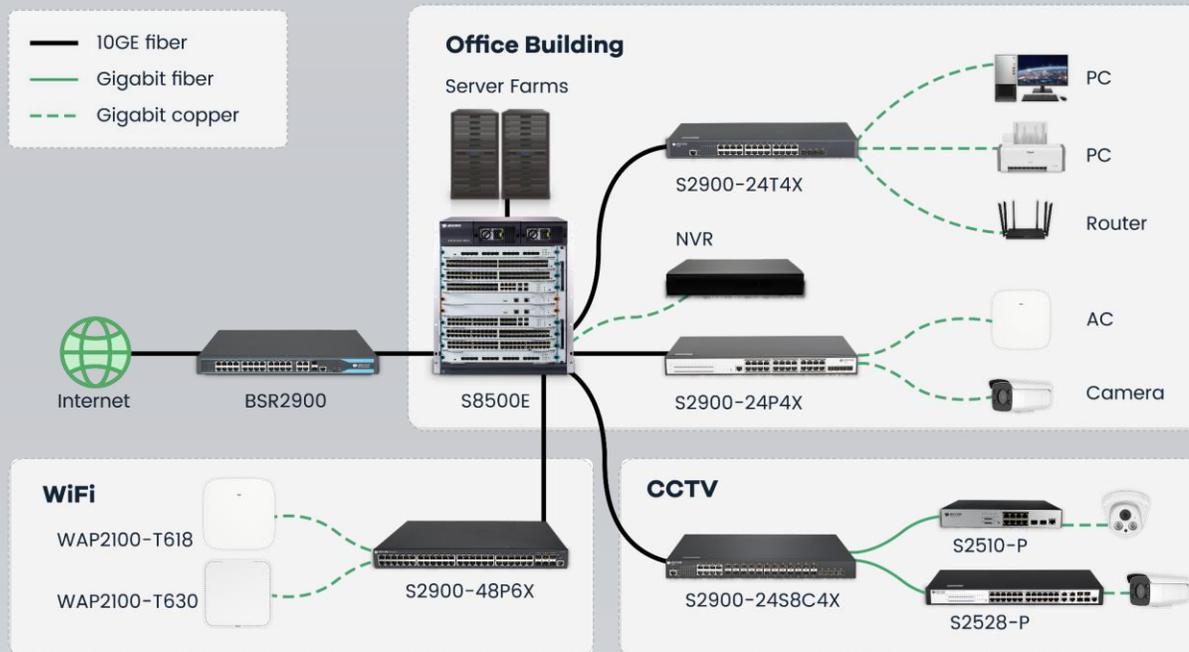
- Supports 16 units enhanced virtualization
- Supports static routing, RIP/OSPF dynamic routing, VRRP virtual routing, industrial Ethernet ring protoco land<50MS switching protection
- Supports IPv4/IPv6 dual-stack protocol
- Supports DHCP server, medium-and-small core networking, layer-2 and layer-3 multicast protocol, variedauthentication and security function
- Supports ZTP(Zero Touch Provisioning), zero-touch service
- Supports CLI/Web/Telnet/SSH/FTP/TFTP/SNMP comprehensive management solution

Typical SMB Solution
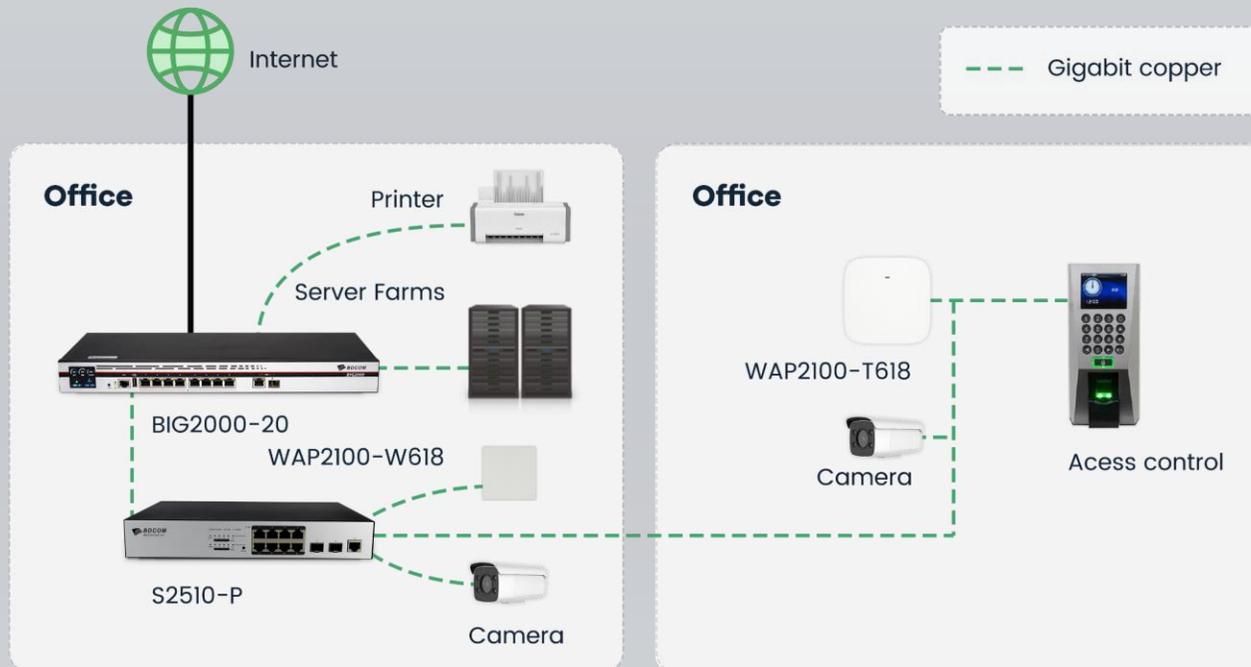
- Routing + AC integrated gateway, supports cloud management, 7*24 hours monitoring network Managed POE switch, support 8-port full-load 802.3af power supply

- Support necessary data isolation, office and management are independent of each other

- WiFi6 high-performance wireless access, optional ceiling, panel and other installation methods

- Wireless fast seamless roaming, intelligent adjustment of terminal access points

CCTV Solution

Control Center

Industrial Ethernet Ring
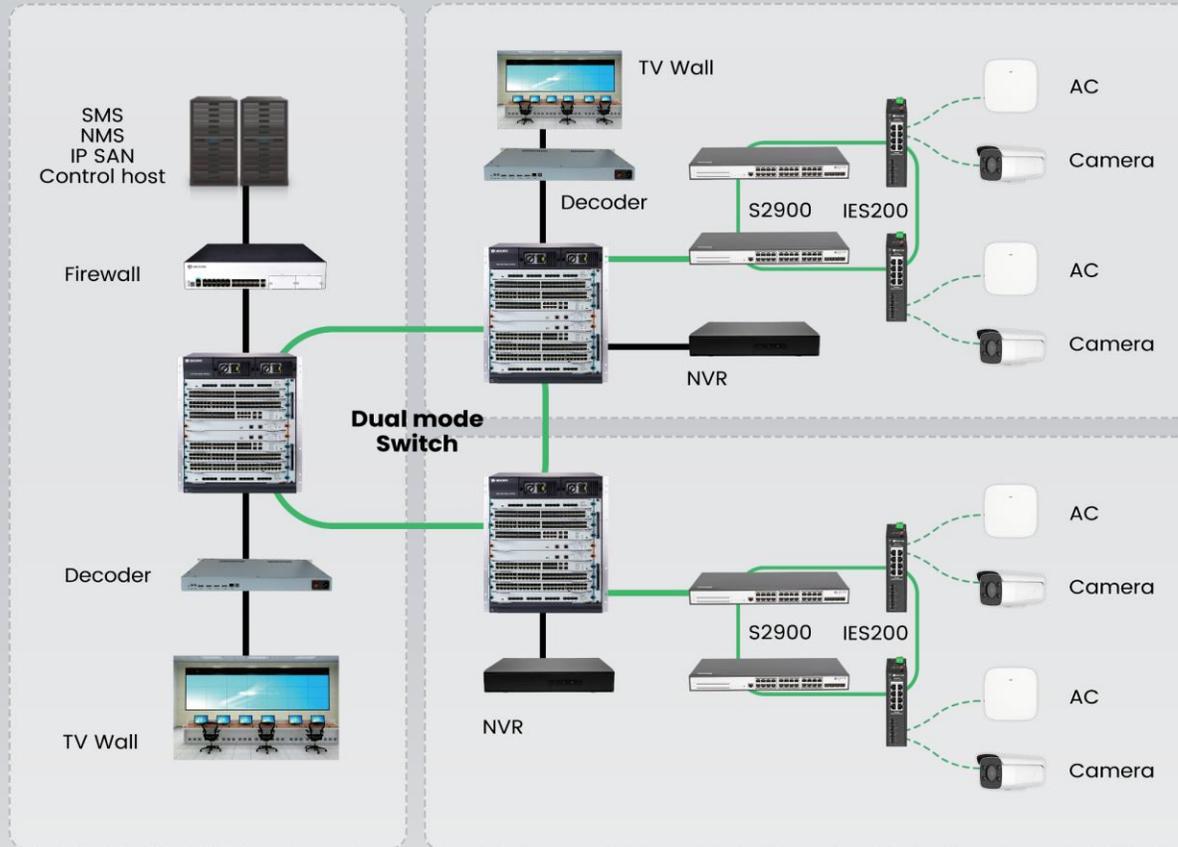
- Lightning protection level: 6KV
- IP40 protection, industrial fanless thermal conduction
- DIN-rail aluminum alloy shell, which is compact and convenient
- Conforms to IEEE802.3af/at standard, maximum 30W PoE power of single port
- Supports node self-healing time less than 5 milliseconds, and ring network self-healing time less than 50 milliseconds (typical value)
- Supports local management (SNMP) and cloud platform (Pallas)
- The mean time between failures exceeds 800,000 hours

Thank You

Shanghai Baud Data Communication Co., LTD