

XIKESTOR PRODUCT SELECTION GUIDE

BUILT FOR EFFICIENCY



Switch
NAS
Adapter

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About XikeStor

Founded in 2009, Anhui Seeker Electronic Technology Co., Ltd. (XikeStor) develops, manufactures, and sells high-speed networking equipment and smart storage products. We provide high-performance, reliable, cost-effective data connectivity and storage solutions for individuals, home studios, small and medium-sized businesses, and professional users.

2009

Founded in

30+

Self-developed Products

60+

Invention Patents

2 MILLION+

Global Customers Served

XikeStor: Focused on R&D & Manufacturing of High-Speed Network Equipment

Built For Efficiency

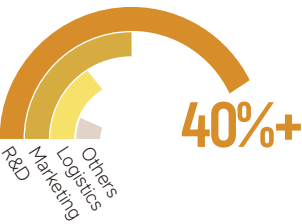
Independent R&D Capability

XikeStor has a complete product development system covering product definition, industrial and structural design, hardware and PCB development, system debugging, performance testing, and preparation for mass production.

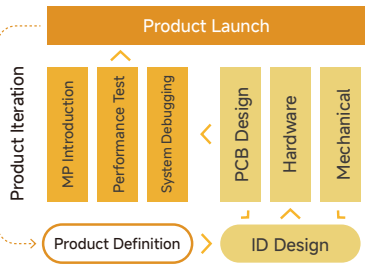
We have long specialized in high-speed networking technology, developing multi-speed switches, high-performance network equipment, and smart storage for 2.5GbE, 10GbE, and faster applications. By continually refining chipsets, hardware architecture, thermal design, power management, and system stability, we improve performance and reliability to deliver more efficient and stable data transmission.

XikeStor's portfolio includes high-speed and managed switches, 10GbE and faster network equipment, NAS systems, network adapters, optical transceivers, high-speed cables, and other connectivity accessories. This lineup spans network links and data storage, helping users build infrastructure ready for the future.

Over 40% R&D Staff



End-to-End R&D Capability



60+

Sold in more than 60 countries and regions worldwide

Global Market Footprint

XikeStor adheres to independent brand development and actively expands the global market. Through online channels, industry partners and professional customer service systems, we promote high-speed networking products to more countries and regions.

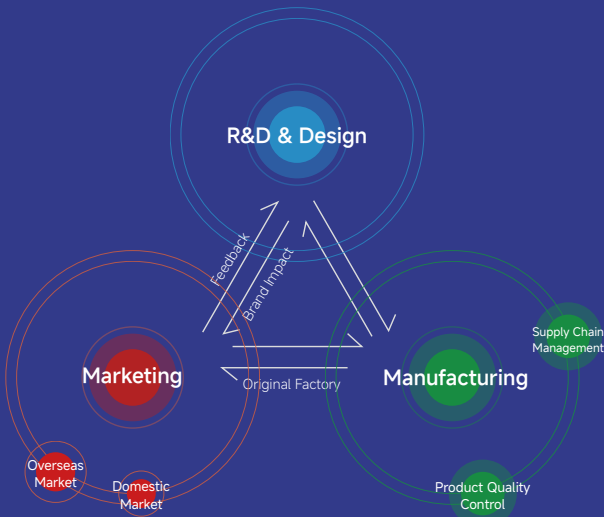
The company continuously monitors global users' demands for high-speed network upgrades. We optimize products for different market environments and application scenarios, delivering flexible, efficient networking solutions for individual users, SMEs and enterprise clients.

Complete Manufacturing & Supply Chain System

XikeStor has built a full product delivery system covering R&D, design and manufacturing, with mature supply chain management and product quality control capabilities.

Through strict component selection, production process management, performance testing and reliability verification, the company ensures stable performance of every product under high-speed transmission, long-term operation and complex application environments.

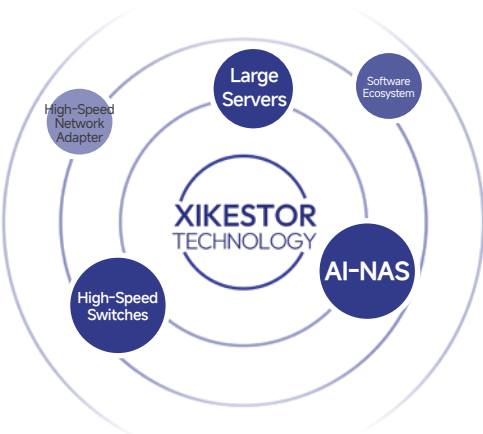
Backed by our robust manufacturing system, XikeStor can rapidly respond to market demands, enabling efficient product transformation from conceptual design and engineering verification to mass production. We provide stable and reliable product supply for global customers.



Brand Philosophy

Unlike traditional network equipment vendors that focus on complex management platforms, XikeStor concentrates more on high-speed connectivity itself. By continuously improving hardware performance and reducing the deployment cost of high-speed networks, we enable more users to benefit from efficiency gains brought by high-speed networking.

Going forward, XikeStor will keep innovating around high-speed networking and intelligent storage technologies, continuously upgrading data connectivity capabilities, and making high-speed networks a critical infrastructure for the digital era.



Diversified Product Portfolio

At present, XikeStor's product portfolio covers high-speed switches, smart managed switches, 10G and above high-speed network devices, NAS intelligent storage systems, high-speed network adapters, optical modules, high-speed cables and other network connectivity accessories.

By building a complete product matrix ranging from network connectivity to data storage, XikeStor empowers users to build future-oriented data infrastructure.

HIGH-SPEED NETWORK ATTACHED STORAGE PRODUCT LINE



All-SSD
Network-Attached Storage

Hybrid-Storage
Network-Attached Storage

Desktop Performance Flagship, Unleash True Data Productivity

ALL *Flash* NAS



Faster & More Stable
Data Transmission



Safer Private
Cloud Storage



Rapid Storage
Expansion



Large Repository for
Video Processing



BUILT FOR
EFFICIENCY

ALL-FLASH NAS
PRODUCT SELECTION GUIDE

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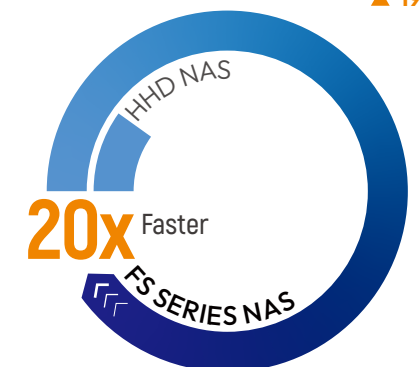


Powerful Computing & High-Speed Interconnection Platform

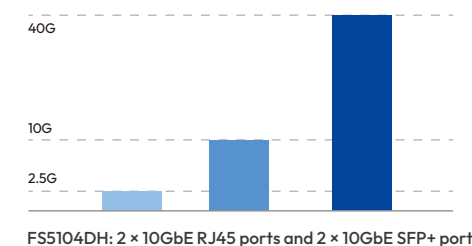
XikeStor All-Flash NAS series is built for high-performance data applications. Equipped with high-performance Intel processors and an all-SSD architecture, it delivers an integrated solution combining computing power, storage performance and high-speed connectivity for enterprise office, AI development, media production, virtualization and home data centers.

Whether for TB-scale data management, multi-user high-speed collaboration, AI model deployment, 4K/8K video editing, virtual machine operation or high-speed network sharing, XikeStor All-Flash NAS consistently provides low latency, high throughput and highly reliable storage experience. It empowers desktop-level devices with data processing capabilities comparable to enterprise-class servers.

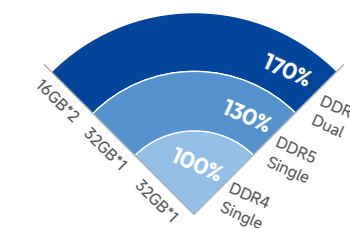
- Overall data processing efficiency far exceeds HDD NAS **▲ 1900%**



- FS Series fully equipped with 10G network ports, maximum network speed **40Gbps ▲**



- Dual-channel DDR5 **62.5%-90% ▲** efficiency improvement over DDR4



- Model FS520604D, maximum expandable capacity up to **176TB**



Built for Professional Applications

XikeStor All-Flash NAS acts as a converged platform integrating computing, networking, expansion and intelligent applications. Its all-flash architecture, high-performance processors, abundant high-speed interfaces and enterprise-grade network capabilities enable it to serve diverse scenarios ranging from personal studios to SMEs, covering content creation, AI computing and more.

Model



FS5104D



FS5104DH



FS510402D



FS5206D



FS520602D



FS520604D

CPU

Intel core i5-12450H

Intel core i5-12450H

Intel core i5-12450H

Intel core Ultra7 255H

Intel core Ultra7 255H

Intel core Ultra7 255H

Storage

4*2280 M.2 NVMe SSD
(Single Max 8TB)

4*2280 M.2 NVMe SSD
(Single Max 8TB)

4*2280 M.2 NVMe SSD
(Single Max 8TB)
2*U.2 NVMe SSD
(Single Max 32TB)

6*2280 M.2 NVMe SSD
(Single Max 8TB)

6*2280 M.2 NVMe SSD
(Single Max 8TB)
2*U.2 NVMe SSD
(Single Max 32TB)

6*2280 M.2 NVMe SSD
(Single Max 8TB)
4*U.2 NVMe SSD
(Single Max 32TB)

Memory

Support 2*DDR5
4800MT/S SODMM
(Single Max 32GB)

Support 2*DDR5
4800MT/S SODMM
(Single Max 32GB)

Support 2*DDR5
4800MT/S SODMM
(Single Max 32GB)

Support 2*DDR5
6400MT/S SODMM
(Single Max 64GB)

Support 2*DDR5
6400MT/S SODMM
(Single Max 64GB)

Support 2*DDR5
6400MT/S SODMM
(Single Max 64GB)

I/O

2*USB2.0、2*USB3.0
1*USB3.2、1*USB4.0
1*HDMI、1*Mini-DP

2*USB2.0、2*USB3.0
1*USB3.2、1*USB4.0
1*HDMI、1*Mini-DP

2*USB2.0、2*USB3.0
1*USB3.2、1*USB4.0
1*HDMI、1*Mini-DP

2*USB2.0、2*USB3.2
2*USB4.0
1*HDMI、1*DP、1*OcuLink

2*USB2.0、2*USB3.2
2*USB4.0
1*HDMI、1*DP

2*USB2.0、2*USB3.2
2*USB4.0
1*HDMI、1*DP

Network

2*10GbE RJ45

2*10GbE RJ45
2*10GbE SFP+

2*10GbE RJ45

2*10GbE RJ45
WIFI7

2*10GbE RJ45
WIFI7

2*10GbE RJ45
WIFI7

Dimensions

215mm*149.5mm*52mm

215mm*149.5mm*52mm

215mm*149.5mm*74.5mm

215mm*149.5mm*52mm

215mm*149.5mm*74.5mm

215mm*149.5mm*95.5mm

Features

Max expandable capacity 32TB;
Aluminum alloy housing;
Supports 4K@60Hz video output;
Supports dual-screen video output;
Single-core frequency up to 4.4GHz

Max expandable capacity 32TB;
Aluminum alloy housing;
Max network speed up to 40GbE
Supports 4K@60Hz video output;
Supports dual-screen video output;
Single-core frequency up to 4.4GHz

Max expandable capacity 96TB;
Aluminum alloy housing;
Supports 4K@60Hz video output;
Supports dual-screen video output;
Single-core frequency up to 4.4GHz

Max expandable capacity up to 48TB;
OcuLink supports PCIe4.0 x4 expansion;
Aluminum alloy housing;
Supports 8K@60Hz video output;
Supports 4-screen video output;
Single-core frequency up to 5.1GHz

Max expandable capacity up to 112TB;
Aluminum alloy housing;
Supports 8K@60Hz video output;
Supports 4-screen video output;
Single-core frequency up to 5.1GHz

Max expandable capacity up to 176TB;
Aluminum alloy housing;
Supports 8K@60Hz video output;
Supports 4-screen video output;
Single-core frequency up to 5.1GHz

HYBRID STORAGE NAS

Massive Storage & Blazing-Fast Response,
Build an Efficient Data Center



Optimal Balance Between Capacity and Speed

Combining the large-capacity storage of HDDs and high performance of NVMe SSDs, it meets long-term retention requirements for massive data while delivering ultra-fast access experience. It helps users strike an ideal balance among capacity, performance and cost.



4 SATA
HDD Bays



4 or 2 M.2
NVMe SSD Bays



2x2.5G ports,
or plus extra 10G port



Up to 128TB
expandable storage



Optimal Configuration for 24/7 Operation

The entire series adopts Intel® Processor N100. Its TDP is only 6W with single-core performance up to 3.4GHz. Equipped with Intel® UHD Graphics GPU, it supports 4K@60Hz video output. It serves as an ideal choice for team and home scenarios for group collaboration and data storage.

6W

TDP Power
Consumption

3.4GHZ

Max Single-Core
Boost Frequency

N100
N5105
Higher than N5105

150%

Perfect Assistant for High-Efficiency Team Collaboration

Integrating large HDD storage with NVMe SSD cache, it enables centralized data management, rapid access and flexible sharing. Paired with high-speed networks, it facilitates efficient circulation of design files, project documents, video footage and other data to boost team collaboration efficiency.



HYBRID STORAGE
NAS SERIES



Model

TS3104D

TS3104DH

TS3004E

TS3004T

CPU

Intel® Processor N100

Intel® Processor N100

Intel® Processor N100

Intel® Processor N100

Storage

4*3.5&2.5 SATA HDD
(Single Max 32TB)
4*2280 M.2 NVMe SSD
(Single Max 8TB)

4*3.5&2.5 SATA HDD
(Single Max 32TB)
2*2280 M.2 NVMe SSD
(Single Max 8TB)

4*3.5&2.5 SATA HDD
(Single Max 32TB)
4*2280 M.2 NVMe SSD
(Single Max 8TB)

4*3.5&2.5 SATA HDD
(Single Max 32TB)
2*2280 M.2 NVMe SSD
(Single Max 8TB)

Memory

Support 1*DDR5
4800MT/S SODMM
(Single Max 16GB)

Support 1*DDR5
4800MT/S SODMM
(Single Max 16GB)

Support 1*DDR5
4800MT/S SODMM
(Single Max 16GB)

Support 1*DDR5
4800MT/S SODMM
(Single Max 16GB)

I/O

1*HDMI
3*USB3.2

1*HDMI
3*USB3.2

1*HDMI
3*USB3.2

1*HDMI
3*USB3.2

Network

2.5GbE RJ45*2

2.5GbE RJ45*2
10GbE RJ45*1

2.5GbE RJ45*2

2.5GbE RJ45*2
10GbE RJ45*1

Dimensions

185mm*170mm*230mm

185mm*170mm*230mm

185mm*170mm*230mm

185mm*170mm*230mm

Features

Maximum expandable capacity128TB
Visual LCD Panel
Single-core performance 3.4GHz
Low power consumption: 6W

Maximum expandable capacity128TB
10GbE Network Port
Visual LCD Panel
Single-core performance 3.4GHz
Low power consumption: 6W

Maximum expandable capacity128TB
Visual LCD Panel
Single-core performance 3.4GHz
Low power consumption: 6W

Maximum expandable capacity128TB
10GbE Network Port
Visual LCD Panel
Single-core performance 3.4GHz
Low power consumption: 6W

HIGH-SPEED ETHERNET SWITCH PRODUCT LINE



Multi-Port 2.5GbE&10GbE Switches

Enterprise 10G Switch

40GbE / 100GbE High-Speed Switch

Gigabit High-Speed Switch

2.5g&10g Switch The Ideal Starting Point for High-Speed Networking

Build a High-Speed Network Hub for Homes, Personal Studios, and Small Businesses.



XikeStor

End-to-End Quality Control



XikeStor maintains end-to-end control over its product manufacturing process, from R&D and design to supply chain management, production, and quality inspection.

We strive for excellence at every stage, delivering high-performance, reliable, and durable switches through rigorous quality standards, providing users with a stable and dependable high-speed networking experience.

Benefits of 2.5G + 10G Mixed-Port Switches



High-Speed Connectivity

Supports connections to NAS devices, servers, core switches, and high-speed storage systems, delivering greater network throughput.



10G High-Speed Uplink

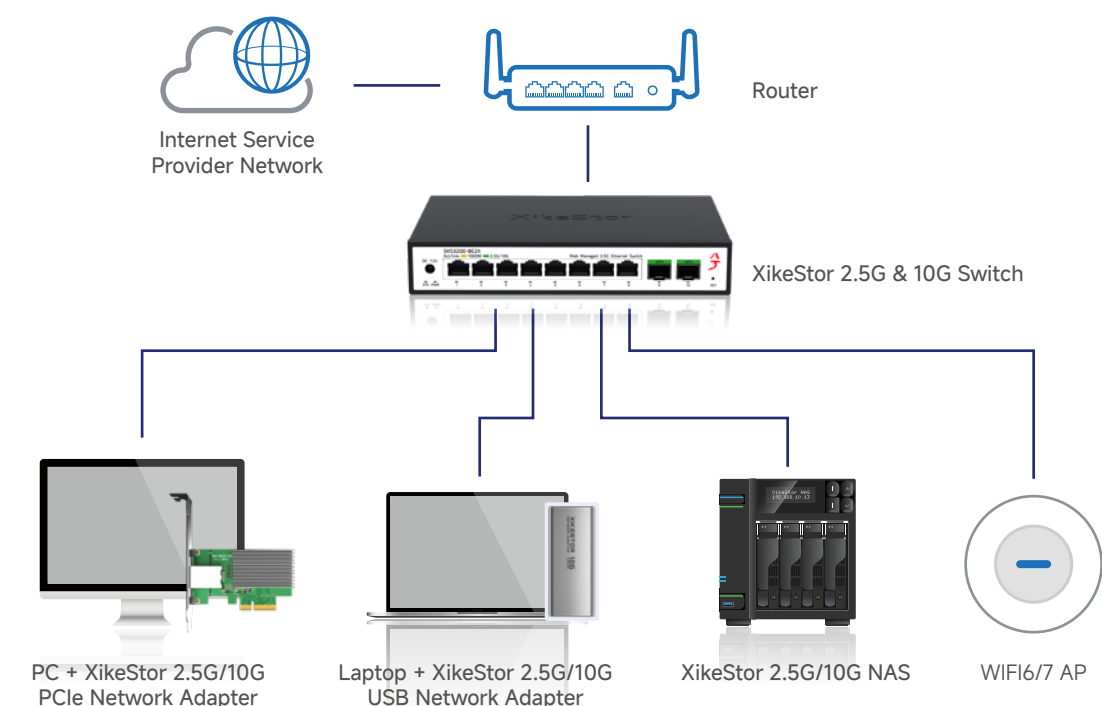
Provides 2.5Gbps high-speed connectivity for PCs, NAS devices, Wi-Fi 6/7 access points, gaming consoles, and other devices, enabling them to fully utilize their performance.



Lower Upgrade Costs

By using 10G connections only for core devices while equipping end devices with 2.5G connectivity, users can achieve significant performance improvements with a better return on investment.

Easily Build a High-Speed 2.5G & 10G Local Area Network



2.5GBE & 10GBE SWITCHES



Model								
	SKS1200-4GPY2XF 6-Port Unmanaged Switch	SKS1200-5GPY1XF 6-Port Unmanaged Switch	SKS1200-8GPY1XF 9-Port Unmanaged Switch	SKS1200-5E2X 7-Port Unmanaged Switch	SKS1200-5E2X-P 7-Port Unmanaged PoE Switch	SKS1200-8E2X 10-Port Unmanaged Switch	SKS1200-8E2X-P 10-Port Unmanaged PoE Switch	SKS1200-16E2X 18-Port Unmanaged Switch
Ports	4*2.5GbE RJ45 2*10GbE SFP+	5*2.5GbE RJ45 1*10GbE SFP+	8*2.5GbE RJ45 1*10GbE SFP+	5*2.5GbE RJ45 2*10GbE SFP+	5*2.5GbE PoE RJ45 (Single Max 30W) 2*10GbE SFP+	8*2.5GbE RJ45 2*10GbE SFP+	8*2.5GbE RJ45 2*10GbE SFP+	16*2.5GbE RJ45 2*10GbE SFP+
Network Layer	Layer 2	Layer 2	Layer 2	Layer2	Layer 2	Layer 2	Layer 2	Layer2
Managed	-	-	-	-	-	-	-	-
PoE	-	-	-	-	PoE+	-	PoE+	-
Backplane Bandwidth	60Gbps	45Gbps	60Gbps	65Gbps	65Gbps	80Gbps	80Gbps	120Gbps
Packet Forwarding Rate	44.64Mpps	33.48Mpps	44.64Mpps	48.36Mpps	48.36Mpps	59.52Mpps	59.52Mpps	89.28Mpps
Mac Address Table	2K	2K	2K	4K	4K	4K	4K	4K
Cooling	Alloy Heatsink	Alloy Heatsink	Alloy Heatsink	Alloy Heatsink + Aluminum Alloy Housing	Alloy Heatsink + Aluminum Alloy Housing	Alloy Heatsink	Alloy Heatsink	Alloy Heatsink
Dimensions (L×W×H)	140*93*28 (LWH)(mm)	140*93*28 (LWH)(mm)	190*100*28 (LWH)(mm)	156*94*30.7 (LWH)(mm)	156*94*30.7 (LWH)(mm)	207*136*32 (LWH)(mm)	207*136*32 (LWH)(mm)	270*180*44 (LWH)(mm)
Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation
Features	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	100W PoE Power Budget MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	100W PoE Power Budget MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection

2.5GBE & 10GBE SWITCHES



								
Model	SKS3200-4E2X 6-Port L2 Managed Switch	SKS3200-5E1X 6-Port L2 Managed Switch	SKS3200-5E2X 7-Port L2 Managed Switch	SKS3200-5E2X-P 7-Port L2 Managed PoE Switch	SKS3200-8E1X 9-Port L2 Managed Switch	SKS3200-8E2X 10-Port L2 Managed Switch	SKS3200-8E2X-P 10-Port L2 Managed PoE Switch	SKS3200M-4GPY2XF 6-Port L2 Managed Switch
Ports	4*2.5GbE RJ45 2*10GbE SFP+	5*2.5GbE RJ45 1*10GbE SFP+	5*2.5GbE RJ45 2*10GbE SFP+	5*2.5GbE PoE RJ45 (Single Max 30W) 2*10GbE SFP+	8*2.5GbE RJ45 1*10GbE SFP+	8*2.5GbE RJ45 2*10GbE SFP+	8*2.5GbE RJ45 (Single Max 30W) 2*10GbE SFP+	4*2.5GbE RJ45 2*10GbE SFP+
Network Layer	Layer 2	Layer 2	Layer 2	Layer2	Layer 2	Layer 2	Layer 2	Layer2
Managed	Web Managed	Web Managed	Web Managed	Web Managed	Web Managed	Web Managed	Web Managed	Web Managed
PoE	-	-	-	PoE+	-	-	PoE+	-
Backplane Bandwidth	60Gbps	45Gbps	65Gbps	65Gbps	60Gbps	80Gbps	80Gbps	60Gbps
Packet Forwarding Rate	44.64Mpps	33.48Mpps	48.36Mpps	48.36Mpps	44.64Mpps	59.52Mpps	59.52Mpps	44.64Mpps
Mac Address Table	4K	4K	4K	4K	4K	4K	4K	4K
Cooling	Alloy Heatsink + Aluminum Alloy Housing	Alloy Heatsink + Aluminum Alloy Housing	Alloy Heatsink + Aluminum Alloy Housing	Alloy Heatsink + Aluminum Alloy Housing	Alloy Heatsink + Aluminum Alloy Housing	Alloy Heatsink	Alloy Heatsink	Alloy Heatsink
Dimensions (L×W×H)	110*94*30.7 (LWH)(mm)	110*94*30.7 (LWH)(mm)	156*94*30.7 (LWH)(mm)	156*94*30.7 (LWH)(mm)	156*94*30.7 (LWH)(mm)	207*136*32 (LWH)(mm)	207*136*32 (LWH)(mm)	140*93*28 (LWH)(mm)
Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation
Features	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	100W Total PoE Power Budget Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	100W Total PoE Power Budget Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP

2.5GBE & 10GBE SWITCHES



Model							
	SKS3200M-5GPY1XF 6-Port L2 Managed Switch	SKS3200M-8GPY1XF 9-Port L2 Managed Switch	SKS3210-4E2X 6-Port L2 Managed Switch	SKS7300-8GPY4XGS-P 12-Port L2 Managed PoE Switch	SKS8300-12E2T2X 16-Port L3 Managed Switch	SKS8300-24E6X 30-Port L3 Managed Switch	SKS8300-24E6X-P 30-Port L3 Managed PoE Switch
Ports	5*2.5GbE RJ45 1*10GbE SFP+	8*2.5GbE RJ45 1*10GbE SFP+	4*2.5GbE RJ45 2*10GbE SFP+	8*2.5GbE RJ45 (Single Max 30W) 4*10GbE SFP+	12*2.5GbE RJ45 2*10GbE RJ45 2*10GbE SFP+	24*2.5GbE RJ45 6*10GbE SFP+	24*2.5GbE RJ45 (Single Max 30W) 6*10GbE SFP+
Network Layer	Layer 2	Layer 2	Layer 2	Layer2	Layer 3	Layer 3	Layer 3
Managed	Web Managed	Web Managed	Web Managed	Web&CLI Managed	Web&CLI Managed	Web&CLI Managed	Web&CLI Managed
PoE	-	-	-	PoE+	-	-	PoE+
Backplane Bandwidth	45Gbps	60Gbps	60Gbps	120Gbps	140Gbps	240Gbps	240Gbps
Packet Forwarding Rate	33.48Mpps	44.64Mpps	44.64Mpps	89.28Mpps	104.16Mpps	178.56Mpps	178.56Mpps
Mac Address Table	4K	4K	4K	8K	16K	32K	32K
Cooling	Alloy Heatsink	Alloy Heatsink	Alloy Heatsink	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Dimensions (L×W×H)	140*93*28 (LWH)(mm)	140*93*28 (LWH)(mm)	190*100*28 (LWH)(mm)	330*230*44 (LWH)(mm)	210*250*44 (LWH)(mm)	440*210*44 (LWH)(mm)	440*260*44 (LWH)(mm)
Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation
Features	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	200W Total PoE Power Budget Comprehensive Basic L2 Functions; VLAN Partitioning Supported; Link Aggregation Supported; QoS Policies; STP/RSTP	Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing	Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing	400W Total PoE Power Budget Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing

Xikestor 10g Switch Unlock the True Value of High-Speed Data Transmission

Build efficient and stable data networks for
small and medium-sized enterprises.



• Why Choose XikeStor 10G Switches?

• Professional Chipset Solution

Carefully selected leading chip platforms such as Realtek and Marvell. Mature solutions empower product performance, delivering stable, efficient and reliable high-speed network experience.

• More Flexible Port Configurations

XikeStor 10G switches offer multiple models with varied port forms to meet diverse requirements across multiple scenarios.

• Lower Network Deployment Costs

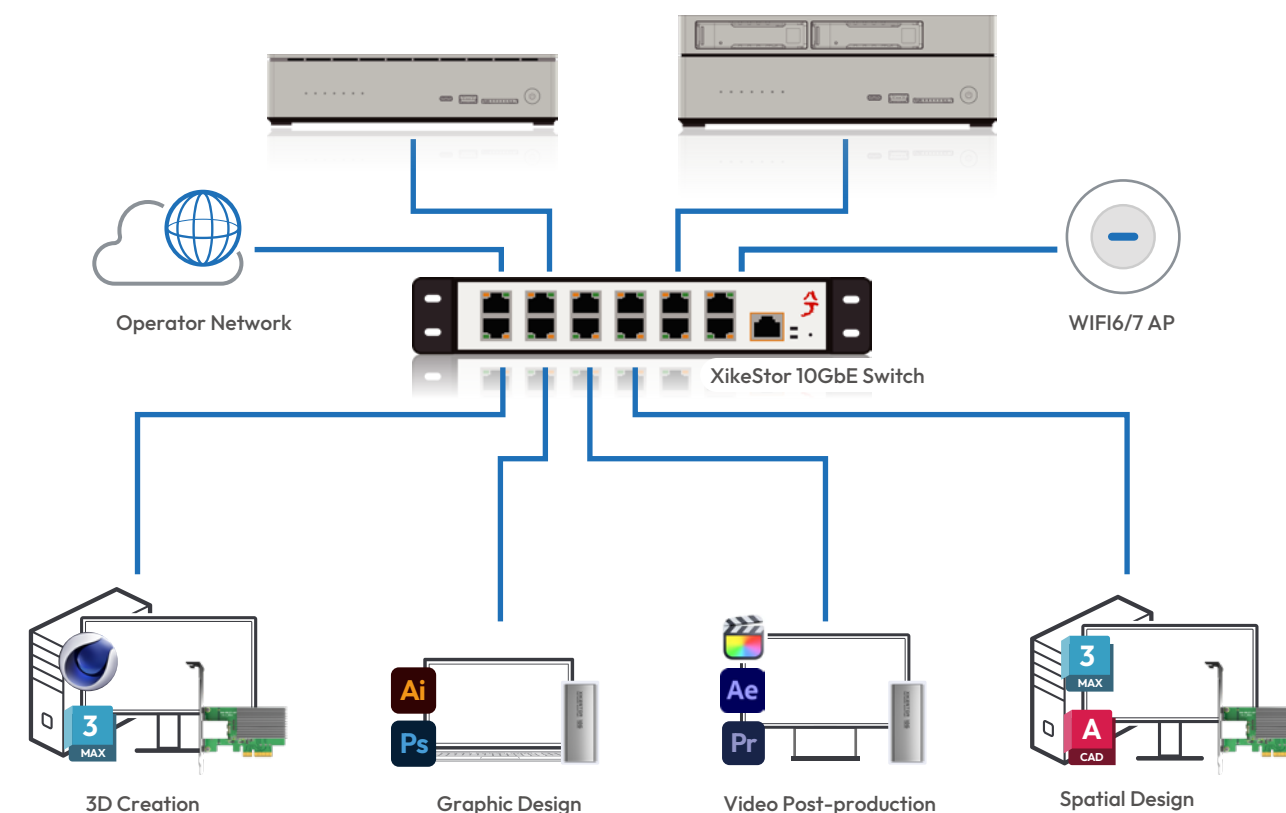
XikeStor 10G switches are independently developed, manufactured and sold by Xike. No distributor markup, with obvious price advantages.

• Stable Operation

XikeStor 10G switches adopt high-quality components and integrated thick metal chassis. Actual throughput and packet loss depend on traffic load, configuration, and connected equipment.

• Upgrade Team Collaboration Efficiency

From file sharing to video creation, data transfer to collaborative office work, Xike 10G high-speed network breaks bandwidth bottlenecks, accelerating every team collaboration and boosting overall work efficiency.



10GBE SWITCHES



Model	SKS1200-4X4T 8-Port Unmanaged Switch	SKS8300-4X4T 8-Port L3 Managed Switch	SKS8300-8T 8-Port L3 Managed Switch	SKS8310-8X 8-Port L3 Managed Switch	SKS8300-8T4X 12-Port L3 Managed Switch	SKS8300-8T4X-P 12-Port L3 Managed PoE Switch	SKS8300-12T 12-Port L3 Managed Switch	SKS8300-12X 12-Port L3 Managed Switch
Ports	4*10GbE RJ45 4*10GbE SFP+	4*10GbE RJ45 4*10GbE SFP+	8*10GbE RJ45	8*10GbE SFP+	8*10GbE RJ45 4*10GbE SFP+	8*10GbE PoE RJ45 (Single Max 30W) 4*10GbE SFP+	12*10GbE RJ45	12*10GbE SFP+
Network Layer	Layer 2	Layer 3	Layer 3	Layer 3	Layer 3	Layer 3	Layer 3	Layer 3
Managed	-	Web&CLI Managed	Web&CLI Managed	Web&CLI Managed	Web&CLI Managed	Web&CLI Managed	Web&CLI Managed	Web&CLI Managed
PoE	-	-	-	-	-	PoE+	-	-
Backplane Bandwidth	160Gbps	160Gbps	160Gbps	160Gbps	240Gbps	240Gbps	240Gbps	240Gbps
Packet Forwarding Rate	119.04Mpps	119.04Mpps	119.04Mpps	119.04Mpps	178.56Mpps	178.56Mpps	178.56Mpps	178.56Mpps
Mac Address Table	16K	16K	16K	16K	32K	32K	32K	32K
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Dimensions (L×W×H)	207*136*32 (LWH)(mm)	207*136*32 (LWH)(mm)	207*136*32 (LWH)(mm)	207*136*32 (LWH)(mm)	210*250*44 (LWH)(mm)	210*250*44 (LWH)(mm)	210*250*44 (LWH)(mm)	210*250*44 (LWH)(mm)
Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation
Features	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing	Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing	Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing	Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing	200W Total PoE Power Budget Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing	Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing	Comprehensive Basic L2&L3 Functions; Layer 3 Routing & Forwarding; Inter-VLAN Routing; Dynamic & Static Routing

Xikestor 10g/40g/100g Switch Core Network Platform for Large Enterprises and Data Centers



Build High-Performance, Highly Reliable & Scalable Network Infrastructure for Enterprises

● Data Center-Grade Performance, Accessible to Professional Users

Traditional 40G/100G switches are mostly deployed in large data centers. XikeStor delivers high-speed switching capabilities via optimized hardware design and supply chain integration in an easy-to-deploy form. Enterprises, research institutes, workspaces and individual professional users can access high-performance network hardware.

● Layer 3 Management Capabilities for Complex Network Requirements

Supports Layer 3 network management functions including VLAN partitioning, IP routing, link management and other advanced network configurations, meeting deployment demands for enterprise networks, high-speed lab environments and multi-service networks.

● Balance of High Performance and Cost-Effectiveness

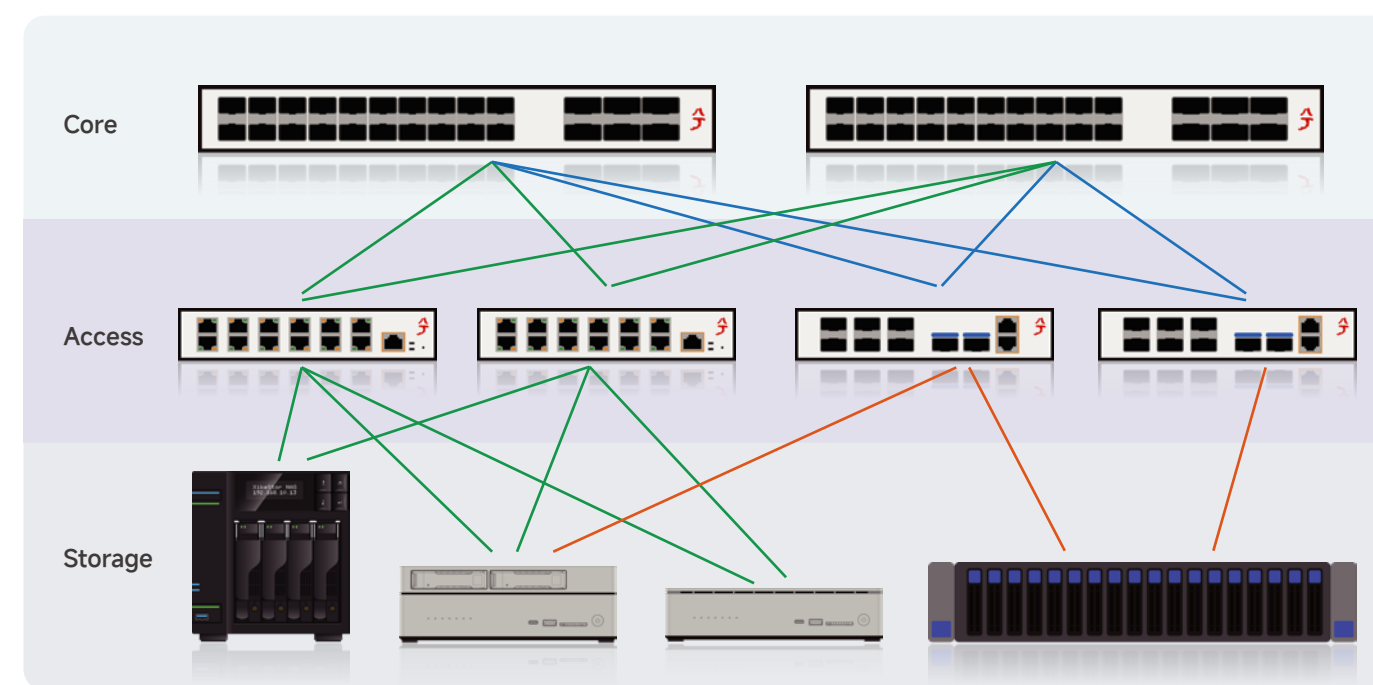
While delivering 40G/100G high-speed transmission, XikeStor focuses on practical value. Its 40G/100G switches lower equipment procurement barriers. Enterprises can build high-speed network environments without the large capital investment typically required for data centers.

● Future-Oriented Network Scalability

Deployment of 40G/100G switching equipment provides sufficient bandwidth reserve for future business expansion, reduces repeated upgrade costs and builds a network architecture with superior lifecycle value.

● Build Enterprise High-Speed Storage Area Networks

By pairing XikeStor high-speed switches with 10G/25G network devices, you can build low-latency, high-throughput SAN storage networks enabling multiple users to simultaneously access large files, databases and virtualization resources.



10GbE 100GbE 40GbE



Model

SKS8300-6Q2C
Small 100GbE Switch

SKS8300-24T2C
26-Port Managed Switch

SKS8310-24X2C
26-Port Managed Switch

SKS8300-48X6C
54-Port Managed Switch

SKS8310-48E4X2Q
54-Port Managed Switch

Ports

6*40GbE QSFP+
2*100GbE QSFP28

24*10GbE RJ45
2*100GbE QSFP28

24*10GbE SFP+
2*100GbE QSFP28

48*10GbE SFP+
6*100GbE QSFP28

48*2.5GbE RJ45
4*25GbE SFP28
2*40G QSFP+

Network
Layer

Layer 3

Layer 3

Layer 3

Layer 3

Layer 3

Managed

Web&CLI&MGMT
Managed

Web&CLI&MGMT
Managed

Web&CLI&MGMT
Managed

Web&CLI&MGMT
Managed

Web&CLI&MGMT
Managed

PoE

-

-

-

-

-

Backplane
Bandwidth

880Gbps

880Gbps

880Gbps

2160Gbps

880Gbps

Packet
Forwarding
Rate

654.72Mpps

654.72Mpps

654.72Mpps

1607.04Mpps

654.72Mpps

Mac
Address
Table

128K

128K

128K

512K

256K

Cooling

Fan Cooling

Fan Cooling

Fan Cooling

Fan Cooling

Fan Cooling

Dimensions
(L×W×H)

210*250*44
(LWH)(mm)

440*320*44
(LWH)(mm)

440*320*44
(LWH)(mm)

440*410*44
(LWH)(mm)

440*330*44
(LWH)(mm)

Installation

Rack-Mountable
Desktop / Wall-Mount
Installation

Desktop / Wall-Mount
Installation

Desktop / Wall-Mount
Installation

Desktop / Wall-Mount
Installation

Desktop / Wall-Mount
Installation

Features

40G ports support breakout
100G ports support breakout
Full L2/L3 features
Layer 3 routing forwarding
Inter-VLAN routing
Dynamic & Static Routing

100G ports support breakout
Full L2/L3 features
Layer 3 routing forwarding
Inter-VLAN routing
Dynamic & Static Routing

100G ports support breakout
Full L2/L3 features
Layer 3 routing forwarding
Inter-VLAN routing
Dynamic & Static Routing

100G ports support breakout
Full L2/L3 features
Layer 3 routing forwarding
Inter-VLAN routing
Dynamic & Static Routing

40G ports support breakout
Full L2/L3 features
Layer 3 routing forwarding
Inter-VLAN routing
Dynamic & Static Routing

GIGABIT SWITCHES



							
Model	SKS1205G 5-Port Unmanaged Switch	SKS1208G 8-Port Unmanaged Switch	SKS1211G-P 11-Port Unmanaged PoE Switch	SKS1218G-P 18-Port Unmanaged PoE Switch	SKS1218GR 18-Port Unmanaged Switch	SKS1224GR 24-Port Unmanaged Switch	SKS1226GR 26-Port Unmanaged Switch
Ports	5*1GbE RJ45	8*1GbE RJ45	8*1GbE PoE RJ45 (Single Max 30W) 2*1GbE RJ45 1*1GbE SFP	16*1GbE PoE RJ45 (Single Max 30W) 2*1GbE RJ45	16*1GbE RJ45 2*1GbE SFP	24*1GbE RJ45	24*1GbE RJ45 2*1GbE SFP
Network Layer	Layer 2	Layer 2	Layer2	Layer2	Layer 2	Layer 2	Layer2
Managed	-	-	-	-	-	-	-
PoE	-	-	PoE+	PoE+	-	-	-
Backplane Bandwidth	10Gbps	16Gbps	22Gbps	36Gbps	36Gbps	48Gbps	52Gbps
Packet Forwarding Rate	7.44Mpps	11.90Mpps	16.36Mpps	26.78Mpps	26.78Mpps	35.71Mpps	38.68Mpps
Mac Address Table	1K	1K	2K	2K	2K	2K	2K
Cooling	Alloy Heatsink	Alloy Heatsink	Alloy Heatsink	Fan Cooling	Alloy Heatsink	Alloy Heatsink	Alloy Heatsink
Dimensions (L×W×H)	100*51*27 (LWH)(mm)	140*51*27 (LWH)(mm)	220*120*44 (LWH)(mm)	270*180*44 (LWH)(mm)	310*185*44 (LWH)(mm)	310*185*44 (LWH)(mm)	310*185*44 (LWH)(mm)
Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation	Rack-Mountable Desktop / Wall-Mount Installation
Features	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	100W Total PoE Power Budget MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	200W Total PoE Power Budget MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection

GIGABIT SWITCHES



Model	SKS1228G-P 28-Port Unmanaged PoE Switch	SKS1250G-P 50-Port Unmanaged PoE Switch
Ports	24*1GbE PoE RJ45 (Single Max 30W) 2*1GbE RJ45 2*1GbE SFP	48*1GbE PoE RJ45 (Single Max 30W) 2*1GbE RJ45
Network Layer	Layer 2	Layer 2
Managed	-	-
PoE	PoE+	PoE+
Backplane Bandwidth	56Gbps	100Gbps
Packet Forwarding Rate	41.66Mpps	74.4Mpps
Mac Address Table	2K	2K
Cooling	Fan Cooling	Fan Cooling
Dimensions (L×W×H)	440*210*44 (LWH)(mm)	440*285*44 (LWH)(mm)
Installation	Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation
Features	400W Total PoE Power Budget MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection	800W Total PoE Power Budget MAC Address Learning&Forwarding; Full-Duplex Communication; Auto-Negotiation; Flow Control; Loop Detection and Protection

SKS8300-24G4X 28-Port L3 Managed Switch	SKS8300-24G4X-P 28-Port L3 Managed PoE Switch
24*1GbE RJ45 4*10GbE SFP+	24*1GbE PoE RJ45 (Single Max 30W) 4*10GbE SFP+
Layer3	Layer3
Web&CLI Managed	Web&CLI Managed
-	PoE+
128Gbps	128Gbps
95.23Mpps	95.23Mpps
4K	4K
Fan Cooling	Fan Cooling
440*210*44 (LWH)(mm)	440*260*44 (LWH)(mm)
Desktop / Wall-Mount Installation	Desktop / Wall-Mount Installation

Comprehensive Basic
L2&L3 Functions;
Layer 3 Routing & Forwarding;
Inter-VLAN Routing;
Dynamic & Static Routing

400W Total PoE Power Budget
Comprehensive Basic
L2&L3 Functions;
Layer 3 Routing & Forwarding;
Inter-VLAN Routing;
Dynamic & Static Routing

Xikestor Network Adapter Comprehensive Network Ecosystem Product Portfolio



Network Adapter Products

XikeStor network adapters are built with high-quality chips and rigorous craftsmanship. Available in multiple interface forms including USB and PCIe, covering electrical ports, optical ports and other rich specifications to meet diverse high-speed network application requirements.



Optical Transceiver Products

XikeStor optical transceivers feature high quality and reliability. Covering SFP+, QSFP+, QSFP28 and other specifications, they support multiple speeds and scenarios, delivering stable and efficient fiber connections for high-speed networks.



High-Speed Cable Products

XikeStor high-speed cables are manufactured with premium materials and precise craftsmanship. Available in network cables, DAC high-speed cables, fiber patch cords and other forms to satisfy stable connection demands for various speeds and usage scenarios.



Portable Storage Products

XikeStor portable storage devices balance high-speed performance and flexible expansion. The lineup includes dual-bay SSD enclosures and multi-spec SSD solutions. Future expansion will introduce U.2 and M.2 hybrid storage products to fulfill high-speed storage requirements across diverse scenarios.



NETWORKING ACCESSORIES



Product	SKN-U310GT USB3 10G Adapter	SKN-U410GT USB4 10G Adapter	SKN-U410M Storage & Network Adapter	SKN-U2.5G2 2.5GbE USB Adapter
Interface	USB-C (Support USB3.0/3.2)	USB-C (Support USB4.0)	USB-C (Support USB4.0)	USB-C&USB-A (Support USB3.0/3.2)
Network Port	10G RJ45*1	10G RJ45*1	10G RJ45*1	2.5G RJ45*1
Controller	RTL8159	AQC113-C	AQC113-C	RTL8156B
Features	Aluminum alloy enclosure alloy fin heat dissipation compact size	Aluminum alloy enclosure air cooling compact size	With SSD slot (M.2 NVMe 2230 SSD1), aluminum alloy enclosure, air cooling	Aluminum alloy enclosure, dual-port cable included

Product	SKN-2BT-M2 PCIe 10G Storage & Network Combo Adapter	SKN-A113-1BT PCIe 10G Copper Adapter	SKN-X520-1SFP+ PCIe 10G Optical Adapter	SKN-X520-1X PCIe 10G Optical Adapter
Interface	PCIe 4.0 x4	PCIe 4.0 x4	PCIe 3.0 x8	PCIe 3.0 x4
Network Port	10G RJ45*2	10G RJ45*1	10G SFP+*1	10G SFP+*1
Controller	AQC113-C	AQC113-C	Intel JL82599EN	Intel JL82599EN
Features	With SSD slot (M.2 NVMe 2280 SSD2), air cooling	PCIe x4 lane, backward compatible, full & low brackets included	PCIe x8 lane, backward compatible, full & low brackets included	PCIe x4 lane, backward compatible, full & low brackets included

Product	SKN-5G PCIe 5G Adapter	SKN-I226-2.5ET PCIe 2.5G Adapter	SKN-X540-2BT PCIe 10G Adapter	SKN-X550-2BT PCIe 10G Adapter
Interface	PCIe3.0 x1	PCIe3.0 x1	PCIe3.0 x8	PCIe3.0 x8
Network Port	5G RJ45*1	2.5G RJ45*1	10G RJ45*2	10G RJ45*2
Controller	RTL8126	Intel i226-v	Intel x540AT2	Intel x550AT2
Features	PCIe x1 lane, backward compatible, full & low brackets included	PCIe x1 lane, backward compatible, full & low brackets included	PCIe x8 lane, backward compatible, full & low brackets included	PCIe x8 lane, backward compatible, full & low brackets included

Product	SKN-X520-2SFP+ PCIe 10G Optical Adapter	SKN-X710-2SFP+ PCIe 10G Optical Adapter	SKN-XL710-2QSFP+ PCIe 40G Optical Adapter
Interface	PCIe3.0 x8	PCIe3.0 x8	PCIe3.0 x8
Network Port	10G SFP+*2	10G SFP+*2	40G QSFP+*2
Controller	Intel JL82599ES	Intel X710	Intel XL710
Features	PCIe x8 lane, backward compatible, full & low brackets included	PCIe x8 lane, backward compatible, full & low brackets included	PCIe x8 lane, backward compatible, full & low brackets included

NETWORKING ACCESSORIES



Product

SKN-8127AF-1SFP+
PCIe 10G Adapter

SKN-8127-1BT
PCIe 10G Adapter

SKN-8127-X1
PCIe 10G Adapter

SKN-8127AF-X1
PCIe 10G Adapter

SKN-E7in1
2.5G 7-in-1 Expansion Adapter

SKN-E6in2
2.5G 6-in-1 Expansion Adapter

Interface

PCIe3.0 x4

PCIe3.0 x4

PCIe4.0 x1

PCIe4.0 x1

USB-C

USB-C/A

Network Port

10G SFP+*1

10G RJ45*1

10G RJ45*1

10G SFP+*1

2.5G RJ45*1

2.5G RJ45*1

Controller

RTL8127AF

RTL8127AT

RTL8127AT

RTL8127AF

-

-

Features

PCIe x4 lane,
backward compatible,
full & low brackets included

PCIe x4 lane,
backward compatible,
full & low brackets included

PCIe x1 lane,
backward compatible,
full & low brackets included

PCIe x1 lane,
backward compatible,
full & low brackets included

Expandable ports:
HDMI2.01, USB-A2 (USB3.2),
PD1, SD Slot*1

Expandable ports:
USB2.01, USB-A2 (USB3.2),
USB-C1 (USB3.2), PD(5V)*1

Product

SKMA/B-10G-10KM
10G Single-mode
Single Fiber Transceiver

SKMM-25G-100M
25G Multi-mode
Dual Fiber Transceiver

SKMM-10G-300M
10G Multi-mode
Dual Fiber Transceiver

SKT-10G-30M
10G Copper Transceiver

SKT-2.5G-100M
2.5G Copper Transceiver

SKMD-10G-10KM
10G Single-mode Dual Fiber Transceiver

SKMM-100G-100M
100G Multi-mode Dual Fiber Transceiver

Interface

LC

LC

LC

RJ45

RJ45

LC

LC

Transmission Distance

10000M

100M

300M

30M

100M

10000M

100M

Features

Wavelength :
1330/1270nm

Wavelength :
850nm

Wavelength :
850nm

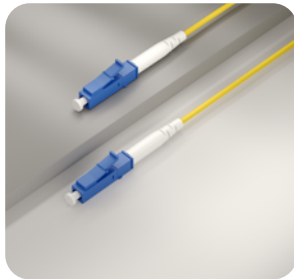
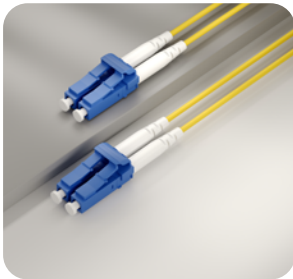
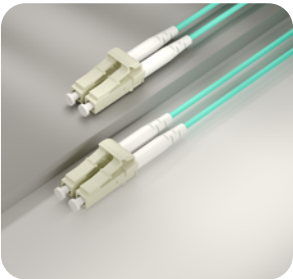
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Wavelength :
1310nm

Wavelength :
850nm

NETWORKING ACCESSORIES



SKMM-LCLC3/5/8
Multi-mode Dual Fiber Patch Cord

SKMD-LCLC3/5/8
Single-mode Dual Fiber Patch Cord

SKMA-LCLC3/5/8
Single-mode Single Fiber Patch Cord

LC-LC

LC-LC

LC-LC

3/5/8M

3/5/8M

3/5/8M

Insertion Loss<0.2dB
Return Loss≥50dB

Insertion Loss<0.2dB
Return Loss≥50dB

Insertion Loss<0.2dB
Return Loss≥50dB



SKMM-40G-SR4-100M
40G Multi-mode Dual Fiber Transceiver

SKMD-40G-LR4-10KM
40G Single-mode Dual Fiber Transceiver

SKMD-100G-LR4-10KM
100G Single-mode Dual Fiber Transceiver

MPO

Duplex LC

Duplex LC

100M

10000M

10000M

Wavelength :
850nm

Wavelength :
1310nm

Wavelength :
1310nm



SKM-10G-AOC
10G Active Optical Cable

SKM-10G-DAC
10G Direct Attach Copper Cable

SK7001.5/3/5/8M
10G Shielded Ethernet Cable

SK8001.5/3/5/8M
10G Shielded Ethernet Cable

SFP+ to SFP+

SFP+ to SFP+

RJ45-RJ45

RJ45-RJ45

1/3/5M

1/3/5M

1.5/3/5/8M

1.5/3/5/8M

Low power consumption
hard alloy shell

Low power consumption,
Twinax dual-core copper cable

568B wiring standard,
600MHz bandwidth,
30AWG conductor

568B wiring standard,
2000MHz bandwidth,
30AWG conductor



SKP2001.5/2/3M
DP-DP 1.4 Video Cable

DP-DP

1.5/2/3M

Supports 8K@60Hz video transmission,
30AWG conductor



SKP1001.5/2/3M
HDMI-HDMI 2.1 Video Cable

HDMI-HDMI

1.5/2/3M

Supports 8K@60Hz video transmission,
30AWG conductor



SKNG2-C3
2-Bay SSD Enclosure

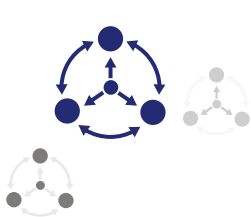
M.2 NVMe*2
(2230/2242)

-

Max expandable up to 16TB,
full metal enclosure,
compact size,
5Gbps high-speed transmission

Understanding Switch Layers

What Are Switch Layers?



A switch's layer describes the protocol level at which it operates in a network model. Different layers offer different data-processing capabilities.

From basic forwarding to complex management and communication across subnets, switches are mainly classified as Layer 2 or Layer 3.

Layer 2 Access Control & Service Assurance

High-speed Data Forwarding Based on MAC Addresses

A Layer 2 switch works at the OSI data-link layer and forwards frames using device MAC addresses. As devices join, the switch learns their MAC addresses and builds a table for accurate forwarding between endpoints. Compared with a shared network, Layer 2 switching reduces congestion and improves LAN efficiency.

Feature

MAC Address Learning and Forwarding

The switch automatically records the mapping between MAC addresses of connected devices and ports to build a MAC address table. When data arrives at the switch, it quickly locates the target device based on the destination MAC address to achieve high-speed forwarding.

VLAN

Logically divides a physical switch into multiple isolated broadcast domains to enhance security and limit broadcast scope. Supports multiple classification methods including port-based, MAC address-based and protocol-based VLAN.

802.1Q

Inserts VLAN tags into frames to enable consistent VLAN deployment across multiple switches. Port modes include: Access (connects end devices, removes tags for single-VLAN access), Trunk (connects switches/routers, carries tagged multiple VLANs), and Hybrid (hybrid mode for flexible tag processing).

STP

Automatically detects and blocks loops on redundant links to prevent broadcast storms. When the primary link fails, the backup link is activated rapidly to restore communication.

RSTP/MSTP

Rapid Spanning Tree greatly reduces convergence time. Multiple spanning tree instances enable load balancing across different VLANs and allow simultaneous utilization of redundant links.

This section explains common switching features. Availability varies by model and firmware; refer to the model-specific specifications.

Link Aggregation (LACP / Static)

Bundles multiple physical links into one logical link to increase uplink bandwidth and provide link-level redundancy. Traffic can continue over the remaining active member links, subject to configuration and convergence behavior.

IGMP Snooping

The switch listens to IGMP join/leave messages sent by hosts to build a Layer 2 multicast forwarding table. Multicast streams are forwarded only to ports with group members, greatly saving bandwidth.

SPAN/RSPAN

Copies inbound and outbound traffic from specified ports to a monitoring port for traffic analysis, intrusion detection and other systems.

sFlow

Performs sampling statistics on traffic and exports data to analyzers for full-network traffic visibility.

QoS

Classifies packets based on 802.1p priority, DSCP values, etc. Supports queue scheduling mechanisms including Strict Priority (SP) and Weighted Round Robin (WRR) to ensure low-latency forwarding for critical services.



Layer3: Efficient Communication Between Networks

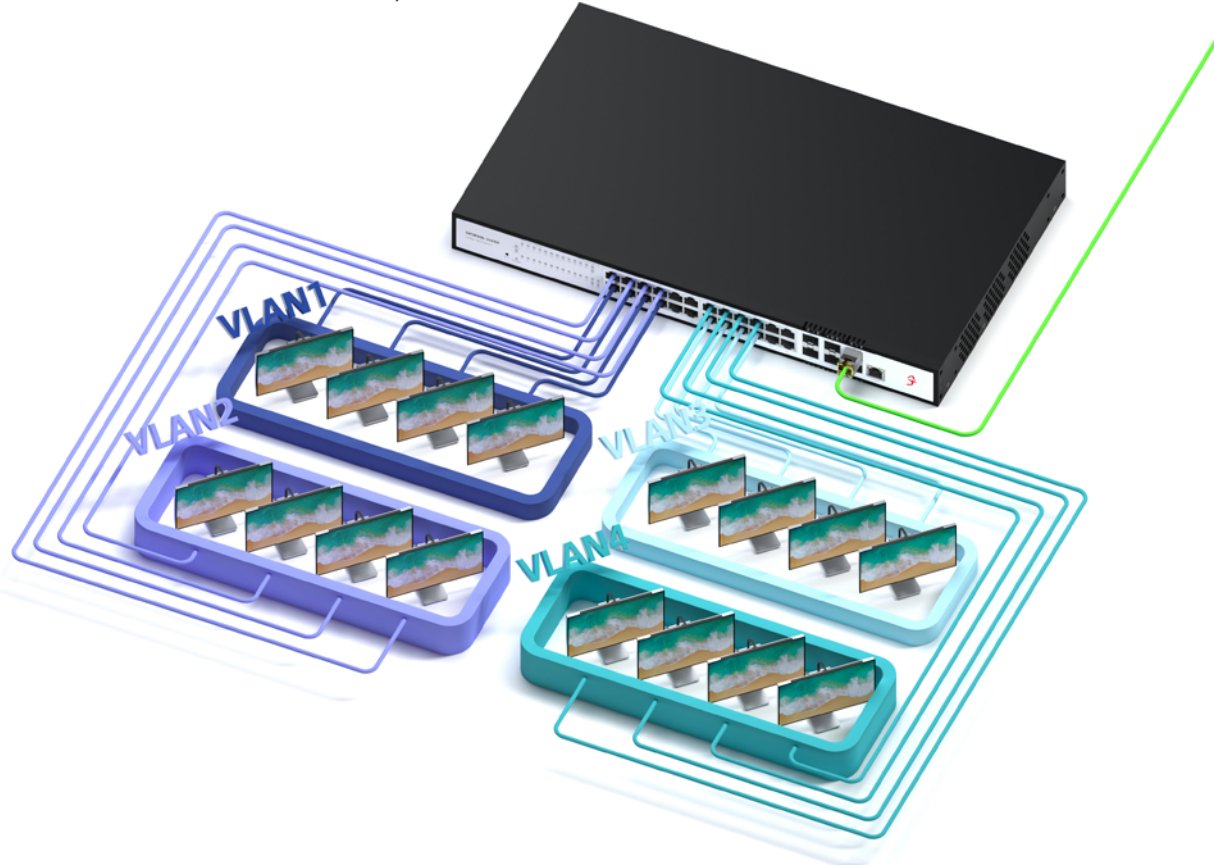
Network Device Integrating Switching and Routing Capabilities	A Layer 3 switch adds network-layer functions based on Layer 2 switches. It can perform both data switching and IP routing. While Layer 2 switches only enable communication within the same network, Layer 3 switches support data transmission between different IP networks.	Applications Enterprise core networks, campus networks, data centers, large-scale server networks.
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Functions

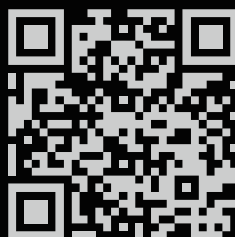
inter VLAN Routing	Different VLANs are isolated by default, so devices in separate VLANs cannot communicate directly. Layer 3 switches provide Layer 3 interfaces to enable data exchange between VLANs via IP routing.
Static Routing	Static routes are manually configured data forwarding paths by administrators. Administrators specify data forwarding directions according to network topology, so the switch forwards traffic following fixed rules.
Dynamic Routing	Dynamic routing automatically adjusts data paths as the network changes. The switch exchanges routing information with other network devices by running dynamic routing protocols and updates the routing table automatically. Common dynamic routing protocols include RIP and OSPF. OSPF features faster convergence and stronger support for large-scale networks.
ARP Management	ARP establishes mappings between IP addresses and MAC addresses. When a device needs to send data to a target IP address, it uses ARP to query the corresponding MAC address of the target device. Layer 3 switches maintain the ARP cache to improve data forwarding efficiency and support ARP security control.
DHCP Relay	DHCP Relay solves the problem that broadcast traffic cannot communicate directly across different networks. Since DHCP requests are usually broadcast packets and broadcasts cannot cross Layer 3 networks, Layer 3 switches forward DHCP requests so devices in different VLANs can obtain IP addresses from a unified DHCP server.
VRRP	VRRP improves network gateway reliability. Multiple Layer 3 switches form a virtual gateway. When the master device fails, the backup device automatically takes over gateway functions to reduce network interruption. VRRP enhances stability and availability of core networks.

This section explains common switching features. Availability varies by model and firmware; refer to the model-specific specifications.

IPv4/IPv6	With the development of IPv6 networks, modern Layer 3 switches support dual-stack architecture for IPv4 and IPv6. The device can process IPv4 and IPv6 packets simultaneously to Dual-stack support enables IPv4 and IPv6 forwarding as separate protocol stacks. It does not by itself provide translation between IPv4 and IPv6.. IPv6 supports address management, route forwarding, neighbor discovery, access control and other functions, enabling switches to adapt to future network expansion and protocol upgrades.
Multicast Management	Multicast technology delivers data to multiple designated receivers at the same time. Compared with broadcast transmission, multicast reduces duplicate data transmission and improves network resource utilization. Layer 3 switches usually support IGMP Snooping, IGMP protocols and partial multicast routing functions. They identify multicast member relationships and forward multicast traffic only to devices that need the data to optimize bandwidth usage.
High-Reliability Network Features	High-performance Layer 3 switches are equipped with multiple network reliability mechanisms, including link detection, fast fault switching and multi-path forwarding. For example, BFD (Bidirectional Forwarding Detection) quickly detects link failures and triggers routing reconvergence. ECMP (Equal-Cost Multi-Path) transmits traffic over multiple equal-cost paths simultaneously to boost bandwidth utilization and reliability.



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