

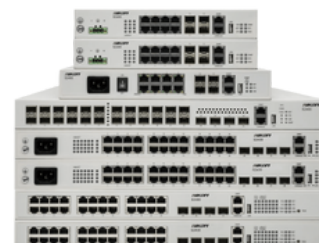


Rikom S2400 Series switch



Rikom S2400 Series

The Rikom S2400 series switches are new-generation 1000 Mbit/s green and energy-saving Ethernet switches independently developed by Rikom, providing flexible 1000 Mbit/s access interfaces and 10 Gbit/s uplink interface. The switch is based on high-performance hardware platforms and the new-generation switching software platform of Rikom, featuring flexible Ethernet networking, diverse security controls, and easy management. It also supports IPv4/v6 static route, mature IPv6 features, intelligent virtualization technologies, flexible PoE management, and can be used to build a new intelligent access network with high reliability, easy expansion, and easy management. It can be widely used in scenarios, such as government agencies, enterprise park, and campus network.



Non-PoE switches

Rikom S2400-8T-4S



- Eight 10/100/1000 Mbit/s electrical interfaces
- Four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module)
- Console interface, SNMP interface, and USB interface
- Single power supply: single AC (AC); single DC (DC)

Rikom S2400-8T-4X



- Eight 10/100/1000 Mbit/s electrical interfaces
- Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)
- Console interface, SNMP interface, and USB interface
- Single power supply: single AC (AC); single DC (DC)

Rikom S2400-8S-4T-4X



- Four 10/100/1000 Mbit/s electrical interfaces
- Eight 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module)
- Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SFP+ optical module)
- Console interface and SNMP interface
- Single power supply: single AC (AC); single DC (DC)

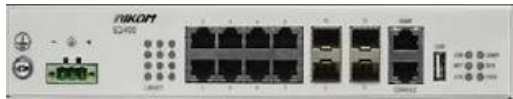
Rikom S2400-24T-4S



- Twenty-four 10/100/1000 Mbit/s electrical interfaces
- Four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module)
- Console interface, SNMP interface, and USB interface
- Single power supply: single AC (AC); single DC (DC)

Rikom S2400-24T-4X	- Twenty-four 10/100/1000 Mbit/s electrical interfaces - Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) - Console interface, SNMP interface, and USB interface - Single power supply: single AC (AC); single DC (DC)
	
Rikom S2400-24S-4X	- Twenty-four 100/1000 Mbit/s SFP optical interfaces - Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) - Console interface, SNMP interface, and USB interface - Single/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)
	

PoE switches>>

Rikom S2400-8T-4X-PWR	- Eight 10/100/1000 Mbit/s PoE+ electrical interfaces - Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) - Console interface, SNMP interface, and USB interface - PoE power supply: support the IEEE802.3af/at power supply standards, with the single interface supporting 30 W power and the entire device supporting 124 W power - Single power supply: single AC (AC); single DC (DC)
	
Rikom S2400-24T-4X-PWR	- Twenty-four 10/100/1000 Mbit/s PoE+ electrical interfaces - Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) - Console interface, SNMP interface, and USB interface - PoE power supply: support the IEEE802.3af/at power supply standards, with the single interface supporting 30 W power. The AC-power-only model supports supplying 510 w power. The DC-power model supports supplying 720 w power. - Single/Dual power supply: single AC (AC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)
	
Rikom S2400-24T-4X-PWH	- Eight 10/100/1000M PoE++ electrical interfaces - Sixteen 10/100/1000M PoE+ electrical interfaces - Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) - Console interface, SNMP interface, and USB interface - PoE power supply: electrical interfaces 1-8 support the IEEE802.3bt power supply standards, with the single interface supporting 90 W power. Electrical interfaces 9-24 support the IEEE802.3af/at power supply standards, with the single interface supporting 30 W power. The AC-power-only model supports supplying 510 w power. The DC-power model supports supplying 720 W power. - Single/Dual power supply: single AC (AC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)
	

Non-PoE switches

Product	Rikom S2400-8T-4X	Rikom S2400-8S-4T-4X	Rikom S2400-24T-4X	Rikom S2400-24S-4X
Interfaces	Eight 10/100/1000 Mbit/s electrical interfaces Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)	Four 10/100/1000 Mbit/s electrical interfaces Eight 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module) Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)	Twenty-four 10/100/1000 Mbit/s electrical interfaces Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)	Twenty-four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module) Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)
Switching capacity	96Gbps	104Gbps	128Gbps	128Gbps
Packet forwarding rate	71Mpps	77Mpps	95Mpps	95Mpps
Dimensions (mm) (Width * Depth * Height)	260 x 130 x 43.6	220 x 230 x 43.6	440 x 220 x 43.6	440 x 300 x 43.6
Power supply type	Embedded with single power supply: AC/DC	Embedded with single power supply: AC/DC	Embedded with single power supply: AC/DC	Embedded with single/dual power supplies: AC/S, DC/S, AC/D, DC/D, and AC_DC
Input voltage	AC: 220 V; rated voltage range: 100–240 V; 50–60 Hz DC: -48 V; rated voltage range: -36 to -72V			
Maximum power consumption	15 w	15 w	24 w	43 w
Management interface	1 Console interface, 1 SNMP out-of-band interface, and 1 USB interface (except the S2400-8S4T4X)			
Environment requirements	Operating temperature: -5 to 55°C Relative humidity: 10%–90% (non-condensing)			
Energy-saving and environmental protection	Support IEEE802.3az Ethernet EEE energy-saving			

Non-PoE switches		
Product	Rikom S2400-8T-4S	Rikom S2400-24T-4S
Interfaces	Eight 10/100/1000 Mbit/s electrical interfaces Four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module)	Twenty-four 10/100/1000 Mbit/s electrical interfaces Four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module)
Switching capacity	24Gbps	56Gbps
Packet forwarding rate	18Mpps	42Mpps
Dimensions (mm) (Width * Depth * Height)	260 x 130 x 43.6	440 x 220 x 43.6
Power supply type	Embedded with single power supply: AC/DC	
Input voltage	AC: 220 V; rated voltage range: 100–240 V; 50–60 Hz DC: -48 V; rated voltage range: -36 to -72V	
Maximum power consumption	13 w	22 w
Management interface	1 Console interface, 1 SNMP out-of-band interface, and 1 USB interface	
Environment requirements	Operating temperature: -5 to 55°C Relative humidity: 10%–90% (non-condensing)	
Energy-saving and environmental protection	Support IEEE802.3az Ethernet EEE energy-saving	

PoE switches			
Product	Rikom S2400-8T-4X-PWR	Rikom S2400-24T-4X-PWR	Rikom S2400-24T-4X-PWH
Interfaces	Eight 10/100/1000 Mbit/s electrical interfaces Four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module)	Twenty-four 10/100/1000 Mbit/s PoE+ electrical interfaces Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)	Eight 10/100/1000M PoE++ electrical interfaces Sixteen 10/100/1000M PoE+ electrical interfaces Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)
Switching capacity	96Gbps	128Gbps	128Gbps
Packet forwarding rate	71Mpps	95Mpps	95Mpps
Dimensions (mm) (Width * Depth * Height)	300 x 220 x 43.6	440 x 300 x 43.6	440 x 300 x 43.6
Power supply type	Embedded with single power supply: AC/DC	Single/Dual power supply: single AC (AC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)	
Input voltage	AC 100–240 V DC 45–57 V Note: 45–57 VDC IEEE802.3af 51–57 VDC IEEE802.3at		AC 100–240 V DC 45–57 V Note: 45–57 VDC IEEE802.3af 51–57 VDC IEEE802.3at 53–57 VDC IEEE802.3bt
Maximum power consumption	AC: 124 W DC: 240 W	AC only: 510 W Including DC: 720 W	
PoE	The 8 downlink electrical interfaces support IEEE802.3af/at, with the single interface supporting 30 w power.	The 24 downlink electrical interfaces support IEEE802.3af/at, with the single interface supporting 30 w power.	PoE power supply: electrical interfaces 1–8 support the IEEE802.3bt power supply standards, with the single interface supporting 90 W power. Electrical interfaces 9–24 support the IEEE802.3af/at power supply standards, with the single interface supporting 30 W power.
Management interface	Console interface, SNMP interface, and USB interface		
Environment requirements	Operating temperature: -5 to 55°C Relative humidity: 10%–90% (non-condensing)		

Software features	
MAC	• Support static, dynamic, and blackhole MAC addresses. • Support MAC address flapping management. • Support port security MAC and MAC address limit.
VLAN	• Support 4K VLANs. • Support VLAN based on MAC/protocol/IP subnet/interface. • Support basic QinQ. • Support flexible QinQ. • Support VLAN mapping (1:1/N:1). • Support GVRP.
Multicast	• Support IGMPv1/v2/v3 Snooping and MLD Snooping v1/v2. • Support interface-based and user-based immediate leave. • Support IGMP MVR. • Support IGMP VLAN copy. • Support IGMP/MLD Filter. • Support IGMP/MLD Proxy.
QoS/ACL	• Support rate limiting based on the ingress direction and egress direction of interfaces. Support HCAR. • Each interface supports 8 queues and priority mapping. • Support traffic classification and traffic policy. • Support SP, WRR, DRR, SP+WRR, and SP+DRR queue scheduling modes. • Support congestion control WRED. • Support interface/queue shaping.
Reliability	• Support manual aggregation and static LACP. • Support ERPS (ITU-T G.8032). • Support STP/RSTP/MSTP and spanning tree protection functions: BPDU Guard, root Guard, loop protection, TC protection/suppression. • Support Loop Detection Protection (LBD). • Support interface backup and interface isolation.
L2/L3 OAM	• Support Ethernet OAM IEEE802.3ah. • Support L2CP. • Support end-to-end CFM (IEEE802.1ag)/ITU-T Y.1731. • Support interface loopback. • Support VRRPv2/VRRPv3. • Support MAD for stacking. • Support BFD/Linktrace for static route. • Support link-state tracking.
IP routing	• IPv4 and IPv6 static route. • Support ECMP and policy routing.

Security	• Support AAA user domain-based management, 802.1x authentication, MAC address authentication, and bypass authentication. Support Guest VLAN and Voice VLAN. • Support interface-based and VLAN-based storm control. • Support the whitelist, port security MAC, and MAC address limit. • Support IP attack prevent and ARP attack prevention: IPv4/v6 Source Guard and IPv6 prefix Snooping*; DAI and ND Snooping. • Support SSHv2.0, SFTP, and HTTPS. • Support CPU protection.
DHCP	• Support DHCPv4/v6 Client/Server. • Support DHCPv4/v6 Snooping. • Support DHCP v4/v6 Relay. • Support DHCP v4/v6 Server. • Support DHCPv4 option61, option82, DHCPv6 option18, and option37.
IPv6	• Support dual stacks. • Support IPv6 Ping, IPv6 Tracert, IPv6 Telnet, IPv6 SSH, IPv6 FTP/TFTP/SFTP. • Support IPv6 SNMP and IPv6 network management for the Rikom NMS. • Support IPV6 RADIUS, IPV6 TACACS+, IPV6 NTP, and SNTP. • Support ND. • Support DHCPv6 Client/Server/Snooping/Delay/Option18 and 37. • Support IPv6 Source Guard and IPv6 prefix Snooping*; ND Snooping. • Support IPv6 Path MTU. • Support VRRPv3.
Management and maintenance	• Support diversified management methods, such as CLI, SNMPv1/v2c/v3, Web network management, Telnet, and SSHv2.0. • Support the Rikom NMS . • Support LLDP/LLDP MED. • Support local and remote port mirroring. Support traffic mirroring. • Support system logs and hierarchical alarms. Support power Dying Gasp. • Support RMON. • Support optical module DDM. • Support Virtual Cable Test (VCT) and UDLD. • Support clock management and NTP. • Support IPv4/v6 ZTP, which can automatically obtain IP addresses from DHCP and optionally download configurations and upgrade software the FTP server. • Support USB automatic deployment*. • Support dual systems. • Support buffer management. • Support CPU/Memory/Flash monitoring. • Support hardware monitoring (temperature/power/fan (only for products with fans)).
POE (for PoE switches only)	• Support mandatory power supply mode for non-standard PDs. • Support PoE power management, including enabling/disabling interface power supply, interface output power configuration, power supply priority configuration, power overload protection, and overtemperature protection. • Support timed power supply for POE, timed restarting PDs, monitoring PD connectivity status, and restarting PD upon loss of connection.

* Features that will be available in future release

Non-PoE switches	
Rikom S2400-8T-4S AC/DC	• Eight 10/100/1000 Mbit/s electrical interfaces • Four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module) • Console interface, SNMP interface, and USB interface • Single power supply: single AC (AC); single DC (DC); 220 VAC power or -48 VDC power
Rikom S2400-8T-4X AC/DC	• Eight 10/100/1000 Mbit/s electrical interfaces • Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) • Console interface, SNMP interface, and USB interface • Single power supply: single AC (AC); single DC (DC); 220 VAC power or -48 VDC power
Rikom S2400-8T-4S-4X-AC/DC	• Eight 10/100/1000 Mbit/s electrical interfaces • Four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module) • Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) • Console interface and SNMP interface • Single power supply: single AC (AC); single DC (DC); 220 VAC power or -48 VDC power
Rikom2600-24T-4S-AC/DC	• Twenty-four 10/100/1000 Mbit/s electrical interfaces • Four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module) • Console interface, SNMP interface, and USB interface • Single power supply: single AC (AC); single DC (DC); 220 VAC power or -48 VDC power
Rikom2600-24T-4X-AC/DC	• Twenty-four 10/100/1000 Mbit/s electrical interfaces • Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) • Console interface, SNMP interface, and USB interface • Single power supply: single AC (AC); single DC (DC); 220 VAC power or -48 VDC power
Rikom S2400-24-S4X-AC/S Rikom S2400-24S-4X-AC/D Rikom S2400-24S-4X-DC/D Rikom S2400-24S-4X-AC_DC	• Twenty-four 1000 Mbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module) • Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module) • Console interface, SNMP interface, and USB interface • Single/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC); 220 VAC power or/and -48 VDC power

Ordering information PoE switches >>

Rikom S2400-8T-4X-PWR-AC/DC

- Eight 10/100/1000 Mbit/s PoE+ electrical interfaces
- Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)
- Console interface, SNMP interface, and USB interface
- PoE power supply: support the IEEE802.3af/at power supply standards, with the single interface supporting 30 w power and the entire device supporting 124 w power.
- Single power supply: single AC (AC); single DC (DC); 220 VAC power or -48 VDC power

Rikom S2400-24T-4X PW R-AC/S Rikom S2400-24T-4X-PW R-AC/D Rikom S2400-24T-4X-PW R-DC/D Rikom S2400-24T-4X-PW R-AC_DC

- Twenty-four 10/100/1000 Mbit/s PoE+ electrical interfaces
- Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)
- Console interface, SNMP interface, and USB interface
- PoE power supply: support the IEEE802.3bt power supply standard, with the single interface supporting 90 W power. The AC-power-only model supports supplying 510 w power. The DC-power model supports supplying 720 w power.
- Single/Dual power supply: single AC (AC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC); 220 VAC power or/and -48 VDC power

Rikom S2400-24T-4X-PW H-AC/S Rikom S2400-24T-4X-PW H-AC/D Rikom S2400-24T-4X-PW H-DC/D Rikom S2400-24T-4X-PW H-AC_DC

- Eight 10/100/1000M PoE++ electrical interfaces
- Sixteen 10/100/1000M PoE+ electrical interfaces
- Four 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)
- Console interface, SNMP interface, and USB interface
- PoE power supply: electrical interfaces 1-8 support the IEEE802.3bt power supply standards, with the single interface supporting 90 W power. Electrical interfaces 9-24 support the IEEE802.3af/at power supply standards, with the single interface supporting 30 W power. The AC-power-only model supports supplying 510 w power. The DC-power model supports supplying 720 W power.
- Single/Dual power supply: single AC (AC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)