



Rikom S3400 Series Switch



Rikom S3400 Series switch

The Rikom S3400 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 dynamic 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 S3400-24S-8T-6X



- Twenty-four 100/1000 Mbit/s SFP optical interfaces
- Eight 10/100/1000 Mbit/s electrical interfaces
- Six 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/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)

Rikom S3400-48S-6X



- Forty-eight 100/1000 Mbit/s SFP optical interfaces
- Six 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/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)

Rikom S3400-24T-6X



- Twenty-four 10/100/1000 Mbit/s electrical interfaces
- Six 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/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)

Rikom S3400-48T-6X



- Forty-eight 10/100/1000 Mbit/s electrical interfaces
- Six 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/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)

Rikom S3400-24T-6X-L 	• Twenty-four 10/100/1000 Mbit/s electrical interfaces • Six 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/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)
Rikom S3400-48T-6X-L 	• Forty-eight 10/100/1000 Mbit/s electrical interfaces • Six 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/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 S3400-24T-6X-PWH 	• Twenty-four 10/100/1000 Mbit/s PoE++ electrical interfaces • Six 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 • PoE power supply: all the 24 electrical interfaces support the IEEE802.3bt power supply standards, with the single interface supporting 90 W power and the entire device supporting 2200 W power • Single/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)
Rikom S3400-48T-6X-PWH 	• Forty-eight 10/100/1000 Mbit/s PoE++ electrical interfaces • Six 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 • PoE power supply: all the 48 electrical interfaces support the IEEE802.3bt power supply standard (up to 32 interfaces can concurrently support IEEE802.3bt), with the single interface supporting 90 W power and the entire device supporting 2920 W power • Single/Dual power supply: single AC (AC/S); single DC (DC/S); dual AC (AC/D); dual DC (DC/D); AC + DC (AC_DC)

Non-PoE switches						
Product	Rikom S3400-24S-8T-6X	Rikom S3400-48S-6X	Rikom S3400-24T-6X	Rikom S3400-48T-6X	Rikom S3400-24T-6-XL	Rikom S3400-48T-6X-L
Interfaces	Twenty-four 100/1000 Mbit/s SFP optical interfaces Eight 10/100/1000 Mbit/s electrical interfaces Six 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)	Forty-eight 100/1000 Mbit/s SFP optical interfaces Six 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 Six 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)	Forty-eight 10/100/1000 Mbit/s electrical interfaces Six 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 Six 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)	Forty-eight 10/100/1000 Mbit/s electrical interfaces Six 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)
Switching capacity	92Gbps	108Gbps	84Gbps	108Gbps	84Gbps	108Gbps
Packet forwarding rate	140Mpps	166Mpps	126Mpps	166Mpps	126Mpps	166Mpps
Dimensions (mm) (Width * Depth * Height)	440 x 360 x 43.6	440 x 360 x 43.6	440 x 360 x 43.6	440 x 360 x 43.6	440 x 300 x 43.6	440 x 300 x 43.6
Power supply type	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	60w	75w	50w	60w	40w	55w
Management interface	1 RJ45 Console interface and 1 SNMP out-of-band interface					
Environment requirements	Operating temperature: -10 to 50°C Relative humidity: 10%–90% (non-condensing)					

PoE switches		
Product	Rikom S3400-24T-6X-PWH	Rikom S3400-48T-6X-PWH
Interface	Twenty-four 10/100/1000 Mbit/s PoE++ electrical interfaces Six 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)	Forty-eight 10/100/1000 Mbit/s PoE++ electrical interfaces Six 10 Gbit/s optical interfaces (supporting the 100/1000 Mbit/s SFP optical module and 10 Gbit/s SPF+ optical module)
Switching capacity	84Gbps	108Gbps
Packet forwarding rate	126Mpps	162Mpps
Dimensions (mm) (Width * Depth * Height)	442 x 360 x 43.6	442 x 360 x 43.6
Power supply type	Embedded with single/dual power supplies: AC/S, DC/S, AC/D, DC/D, and AC_DC	
Input voltage	AC 180–264 V; DC 42–72 V	
Maximum power consumption	2200 W	2920 W
Overall supplied power	3200 W	3200 W
PoE	All electrical interfaces support IEEE802.3bt, with the single interface supporting 90 w power.	
Management interface	1 Console interface and 1 SNMP out-of-band interface	
Environment requirements	Operating temperature: -10 to 50°C Relative humidity: 10%–90% (non-condensing)	
Energy-saving and environmental protection	Support IEEE802.3az Ethernet EEE energy-saving Support intelligently adjusting the fan speed.	

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. • Support PIM DM, PIM SM, and PIM SSM.
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. • Support IPv4 dynamic routing protocols, such as RIP, OSPF, ISIS, and BGP. • Support IPv6 dynamic routing protocols, such as RIPng, OSPFv3, ISISv6, and BGP4+.



Data Sheet

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. • Support 802.1X. • Support RADIUS authentication. • Support DOS attack prevention. • Support ICMP attack prevention.
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).

* Features that will be available in future release

Ordering information PoE switches >>

Rikom S3400-24S-8T-6X-AC/S
Rikom S3400-24S-8T-6X- DC/S
Rikom S3400-24S-8T-6X- AC/D
Rikom S3400-24S-8T-6X- DC/D

- Twenty-four 100/1000 Mbit/s SFP optical interfaces
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RikomS3400-24S-8T-6X- AC_DC

- Console interface and SNMP 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

Rikom S3400-48S-6X-AC/S
Rikom S3400-48S-6X- DC/S
Rikom S3400-48S-6X- AC/D
Rikom S3400-48S-6X- DC/D
Rikom S3400-48S-6X- AC_DC

- Forty-eight 100/1000 Mbit/s SFP optical interfaces
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Rikom S3400-24T-6X-AC/S
Rikom S3400-24T-6X- DC/S
Rikom S3400-24T-6X- AC/D
Rikom S3400-24T-6X- DC/D
Rikom S3400-24T-6X- AC_DC

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Rikom S3400-48T-6X-AC/S
Rikom S3400-48T-6X- DC/S
Rikom S3400-48T-6X- AC/D
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Rikom S3400-24T-6X-L-AC/S
Rikom S3400-24T-6X-L- DC/S
Rikom S3400-24T-6X-L- AC/D
Rikom S3400-24T-6X-L- DC/D
Rikom S3400-24T-6X-L- AC_DC

- Twenty-four 10/100/1000 Mbit/s electrical interfaces
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- Console interface and SNMP 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