RS1025K-12S-10G-M3

MANAGED 10G SWITCH



- 1. 12-Port 1G/10G SFP Fiber Switch
- Equipped with 12 × 1G/10G SFP optical ports, this Layer 3 managed fiber switch supports flexible fiber network deployment for enterprise networks, data centers and campus backbones.
- 2. High-Performance Switching Capacity
- Delivers 240Gbps switching capacity and 178.56Mpps packet forwarding performance, with a 16Mbit SRAM packet buffer, 32K MAC address table and support for jumbo frames up to 10KB.
- 3. Layer 3 IPv4/IPv6 Routing
- Supports static routing, RIP v1/v2, OSPFv2, IPv4/IPv6 interfaces and routes, providing flexible Layer 3 routing capabilities for enterprise core and aggregation networks.
- 4. Advanced Layer 2 Management & Security
- Supports VLAN, QinQ, LACP link aggregation, STP/RSTP/MSTP, ERPS ring protection, QoS, ACL, DHCP Snooping, 802.1X authentication and SNMP management for reliable and secure network operation.
- 5. Enterprise Rack-Mount Design & Custom Solutions
- Features a 19-inch rack-mountable design, AC 100–240V power input and support for 1G/10G SFP modules with transmission distances up to 120km depending on the selected module. OEM/ODM customization is available for enterprise networking projects.

Product name	12* 10G SFP Optical Convergence L3 Managed Switch
Fixed Port	12*1G /10G SFP
Console port	1*console port
Reset Key	1
Compliance Protocol	IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ae, IEEE 802.3xIEEE 802.3az, IEEE 802.3ad, IEEE 802.1AB(LLDP/LLDP-MED)IEEE 802.1D(STP), IEEE 802.1w(RSTP), IEEE 802.1s(MSTP)IEEE 802.1Q(VLAN), IEEE 802.1p(QoS), IEEE 802.1X(Port Authentication)

System Performance	**Switching Capacity**	240 Gbps
	Packet Forwarding	178.56Mpps
	Packet Buffer	16 Mbit SRAM
	MAC Address Table	32K
	Jumbo Frame	10K Bytes
Layer 3 Features	**Routing Protocols**	Static Routing, RIP V1/V2, OSPF V2
	IPv4 Features	IPv4 VLAN Interface, IPv4 Static Routes, ARP
	IPv6 Features	IPv6 VLAN Interface, IPv6 Static Routes, IPv6 ND
Layer 2 Features	**VLAN**	4K Active VLANs, QinQ Tunnel, Voice/MAC/Protocol VLAN
	Link Aggregation	LACP (IEEE 802.3ad) up to 8 groups
	Spanning Tree	STP, RSTP, MSTP, BPDU Filter/Guard
	Multicast	IGMP Snooping V1/V2/V3, MLD Snooping, MVR
	Ring Protocol	ERPS (Recovery time < 50ms)
QoS	**Scheduling Mode**	Strict priority, WRR
	Priority Type	Port Priority, 802.1P, IP TOS, IP DSCP
	Queue & Remarking	Max 8 queues per port, support priority remarking
Standard Compliance	**IEEE Standard**	802.3x, 802.3ad, 802.1D, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1X, 802.1ab
	RFC Standard	768(UDP), 793(TFTP), 791(IP), 792(ICMP), 2068(HTTP)1112/2236/3376(IGMP), 2710/3810(MLD), 2328(OSPF v2)1213,1493,1643,2819,2863, LLDP MIB & Private MIB
Power Supply	AC 100-240V 50/60Hz	
Transmission Distance	Different distance according to SFP module & fiber: MMF up to 550m, SMF up to 80km	
Installation	Desktop， 19-inch Rack-mountable	
Surge Protection	Electrostatic ESD: Air 8KV, Contact 6KV (Class B)	