

KSM Solutions L3 24/36 Port Managed Industrial Ethernet Switch

Optional Products include:

24 Port 100/1000M SFP

8-Port 10/100/1000M RJ45 (Combo)

4-Port 1G/10G SFP+



Features

This is a L3 1G/10G managed Industrial Ethernet switch, with 24 x 100/1000M SFP ports + 8 x 10/100/1000M RJ45 ports (Combo) + 4 x 1G/10G(SFP+)Ports.

Supports L3 full network management, static routing full line (unblocked packets) speed forwarding, has a complete security protection system, ACL/QoS strategy and full VLAN function, which is easy to manage and maintain.

Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS improving link backup and network reliability. One way link or network failure communication quickly restored providing improved overall network reliability and performance.

Web network management mode, provides port traffic control, VLAN partition, SNMP along with other application configurations available.



Specifications

SFP/mini-GBIC Slots	24 x 1000BASE-SX/LX/BX SFP interfaces Compatible with 100BASE-FX SFP (Port-1 to Port-24)
Copper Ports	8 x 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports (Port-1 to Port-8)
10G SFP+ Slot	Ports 1G/10G SFP+
Performance Specification	Bandwidth: 256 Gbps Packet Buffer Memory: 321M Packet Forwarding Rate:131M/port MAC Address Table: 32 K
Installation	Desktop type. 19 inch 1U cabinet installation
Maximum Frame Size	1522 bytes packet size
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Enclosure	IP40 slim type metal case Power: Red
LED Indicator	Ethernet: Yellow
Power Input	100-240V AC / 50-60 Hz
Power Consumption	50 watts / 10BTU (maximum)
Protection	ESD (Ethernet): 6KVDC Surge (Power): 6KVDC IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;
Network Protocols	IEEE802.3u;100Base-TX/FX; IEEE802.3z 100Base-X; IEEE802.3ab 1000Base-T; IEEE802.3ae 10GBase-SR/LR; IEEE802.3x; IEEE 802.3ad port trunk with LACP ; IEEE 802.1D Spanning Tree Protocol (STP); IEEE 802.1w Rapid Spanning Tree Protocol (RSTP); IEEE 802.1s Multiple Spanning Tree Protocol (MSTP); IEEE 802.1p Class of Service; IEEE 802.1Q VLAN tagging; IEEE 802.1ad Q-in-Q VLAN stacking; ITU G.8032 ERPS Ring;

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Specifications

Network cables	10BASE-T: Cat3,4,5 UTP(\leq 100 meter) 100BASE-TX: Cat5 or later UTP(\leq 10meter) 1000BASE-TX: Cat6 or later UTP(\leq 100 meter)
Industry Standard	FCC CFR47 Part 15,EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): \pm 8kV (contact), \pm 15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: \pm 4kV; Data Port: \pm 2kV IEC61000-4-5 (Surge): Power Port: \pm 2kV/DM, \pm 4kV/CM; Data Port: \pm 2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)
Layer 2 Function	
Basic Management Interfaces	Console; Telnet; Web browser; SNMP v1, v2,v3
Secure Management Interfaces	SSH, SSL, SNMP v3
Port Configuration	Port disable/enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow control disable/enable Power saving mode control
Port Status	Display each port' s speed duplex mode, link status, flow control status, auto negotiation status, trunk status
Port Mirroring	TX/RX/both 1 to 1 monitor
VLAN	802.1Q tagged based VLAN, up to 255 VLAN groups Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) Up to 255 VLAN groups, out of 4094 VLAN IDs GVRP
Link Aggregation	IEEE 802.3ad LACP/static trunk Supports 4 trunk groups with 4 ports per trunk group
QoS	Traffic classification based, strict priority and WRR 8-level priority for switching Port number 802.1p priority 802.1Q VLAN tag DSCP/TOS field in IP packet

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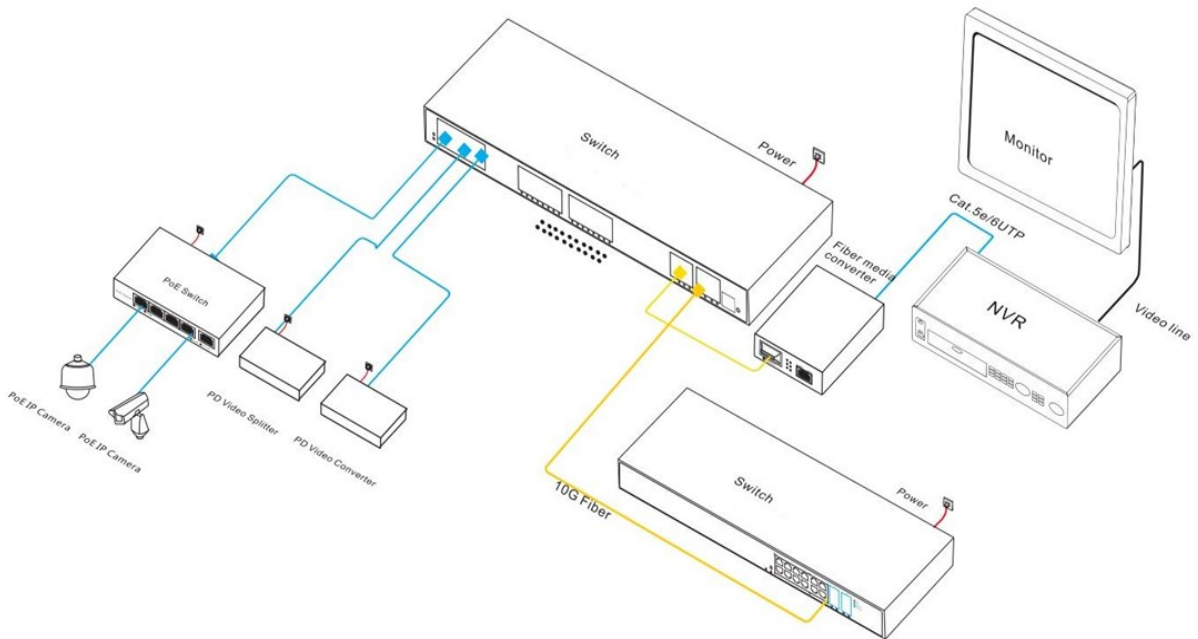
Specifications

IGMP Snooping	IGMP (v1/v2/v3) snooping, up to 255 multicast groups IGMP querier mode support
MLD Snooping	MLD (v1/v2) snooping, up to 255 multicast groups MLD querier mode support
Access Control List	IP-based ACL/MAC-based ACL Up to 123 entries
Bandwidth Control	Per port bandwidth control Ingress: 500Kb~1000Mbps Egress: 500Kb~1000Mbps
SNMP MIBs	RFC 1213 MIB-II IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2618 RADIUS Client MIB RFC 2933 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB IEEE 802.1X PAE LLDP
Layer 3 Function	
IP Interfaces	Max. 8K VLAN interfaces
Routing Table	Max. 32 routing entries
Routing Protocols	IPv4 software static routing IPv6 software static routing
Certification	CE,RoHS,FCC
Dimensions (W x D x H)	440x 285x 45 mm
Weight	Product Weight: 2.5 KG Packing Weight: 3.2 KG
Working Environment	Working temperature: -40~85°C ; Storage temperature: -40~85°C Relative Humidity: 5%~95 % (no condensation)

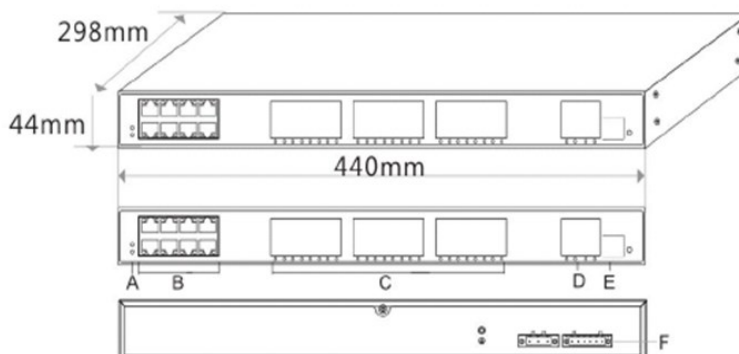
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Application



Dimensions



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|-------------------------|--------------------------|
| A. Working indicator | B. 8* RJ45 Ports |
| C. 24*Gigabit SFP Ports | D. 4*1/10G SFP+ Ports |
| E. Console port | F. AC/DC dual input port |