

TELECOM/DATACOM SYSTEM

18 Ports 10/100/1000M SMART Industrial switch with 16x 1G RJ45 & 2x 1G SFP

SMART Industrial switch Fiber Switch LIMOX18-2SFP is a 16x RJ45port (10/100/1000M), 2x SFP ports (1000M) Managed Industrial Switch with 1x console port. It consumes low power consumption, supports wide operating temperature (-40 to +85degreeC). Its casing is IP40 rated and meet EMC industrial level 4 requirements. These switches are specially designed for harsh industrial environments. It is suitable for wind power, subway PIS, power SCADA, sewage treatment, intelligent transportation systems applications.



FEATURES

- 16x 10/100/1000M RJ45 ports, 2x 1G SFP slots, and 1 console port
- 1Ch Dry Contact Alarm output
- L2+ features provide better manageability, security, QoS, and performance.
- L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, IP Source Guard, ARP inspection, ACLs etc.
- Support spanning tree STP(802.1D) and RSTP(802.1W). Jumbo frames support up to 9.6K kilobytes.
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP and cable diagnosis
- G.8032, ERPS Ethernet Ring Protection Switching (<50ms)

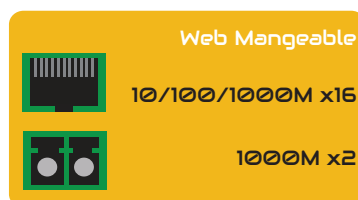
SPECIFICATIONS

Number of RJ45 ports (10/100/1000BaseT)	16
Number of 1G SFP ports	2
Console port	YES (RJ45-RS232)
Ethernet Port	Port 1-16 support 10/100/1000Base-T(X),Auto-sensing,Full/half duplex MDI/MDI-X self-adaptio
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules
Optical Cable	(optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC Multi mode: 850nm 0 ~ 550M,single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Network Management Type	L2+
Network Protocol and Standards	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	256Gbps
Forwarding Rate@64byte	26.78Mpps
MAC	8K
Buffer Memory	6M
Jumbo Frame	9.6K
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) ;100BASE-TX: Cat5e or later UTP(≤100 meter) ; 1000BASE-T: Cat5e or later UTP(≤100 meter)
Lightening and protection level	Lightening protection: 6KV 8/20us;Protection level: IP40
Operating temperature/ humidity	-40 to 80 °C (5 ~ 95% non condensation)
Storage temperature/ humidity	-40 to 85 °C (5 ~ 95% non condensation)
Power Supply	Built-in power supply, AC100-240V 50-60Hz 0.56A
Power Consumption	Standby:<16W;Full load:<30W
LED	Power Indicator : PWR (green); System Indicator :SYS(green); Network Indicator: Link(yellow);SFP Indicator: L/A (green);
Reset switch	Yes,support one key to restore factory settings
Dimensions	440*298*44mm
Weight	<4.7kg / <5.4kg

<i>Port lightning protection / protection level</i>	Lightning protection: 6KV 8/20us;Protection level: IP40; IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge ; IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV ; IEC61000-6-2(Common Industrial Standard) ; IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV ;FCC Part 15/CISPR22(EN55022):Class A; IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) ; IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m ; IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV ; IEC61000-4-16(common-mode transmission):30V; 300V,1s
<i>Mechanical Properties</i>	IEC60068-2-6 (anti vibration); IEC60068-2-27 (anti shock) ; IEC60068-2-32 (free fall)
<i>Certification</i>	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;
<i>Interface</i>	IEEE802.3X (Full-duplex) ; Broadcast storm control based on port speed; The speed limit of the message flow in the access port. The minimum particle size is 64Kbps. Port temperature protection setting ; Port green Ethernet Energy-saving setting
<i>Layer 3 Features</i>	L2+ Network management ; IPV4/IPV6 management L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs
<i>VLAN</i>	4K VLAN based on port, IEEE802.1q ;VLAN based on the protocol ; VLAN based on MAC; Voice VLAN, QinQ configuration ; Port configuration of Access, Trunk, Hybrid
<i>Port Aggregation</i>	LACP, Static aggregation ; Max 9 aggregation groups and 8 ports per group.
<i>Spanning Tree</i>	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
<i>Industrial Ring Network Protocol</i>	G.8032 (ERPS),Recovery time less than 20ms ; 255 Ring at most, Max 254 devices per ring.
<i>Port Mirroring</i>	Bidirectional data mirroring based on port
<i>QoS</i>	Diff-Serv QoS,Priority Mark/Remark ; 8*Output queues of each port ; 802.1p/DSCP priority mapping Queue Scheduling Algorithm (SP, WRR, SP+WRR) ; Flow-based Packet Filtering Flow-based Redirection ; Flow-based Rate Limiting
<i>ACL</i>	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc. Port-based Issuing ACL. , ACL based on port and VLAN
<i>Security</i>	User hierarchical management and password protection ; SSH 2.0,SSL,Port isolation,ARP message speed limit; Broadcast storm control,Backup for host datum ; IEEE802.1X & MAC address authentication; Mac black holes,IP source protection; AAA & RADIUS,MAC learning limit ; ARP inspection,Anti-DoS attack; IP-MAC-VLAN-Port binding
<i>DHCP Management</i>	DHCP Client,DHCP Snooping,DHCP Server,DHCP Relay;One-key recovery; NTP,System work log,Ping Test; Console/AUX Modem/Telnet/SSH2.0 CLI ; Web Management (HTTPS) ;Cable Diagnose,LLDP ; Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP V1/V2C/V3 ; CPU instant utilization status view; Smart Network Management System Platform (LLDP+SNMP)
<i>System</i>	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;Category 5 Ethernet network cable ; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

FUNCTIONAL DIAGRAM

ORDERING INFORMATION



PN	DESCRIPTION
LIM0X18-2SFP	SMART Industrial switch with 16x 1G RJ45 & 2x 1G SFP and 1x console