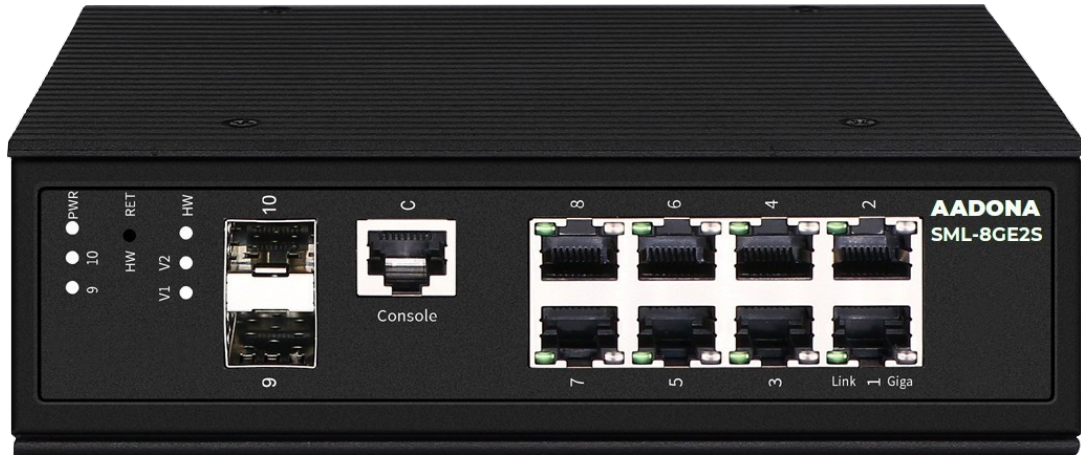


8GE+2SFP 10/100/1000Mbps managed industrial Switch

Sapphire: SML-8GE2S



| Model | Sapphire: SML-8GE2S |
|-----------------------|--|
| Ports | 8*10/100/1000Base-TX RJ45 2*1000M SFP |
| Console | 1*console Port for management |
| Reset | 1 |
| Power input | 2*independent power input· DC 12-57V |
| Environment detection | 1 set of environmental temperature and humidity detection input |
| Feature function | <p>1: industrial switch monitoring platform One-key set up a ring network</p> <p>2: 2 group independent power inputs with under voltage and overvoltage protection</p> <p>3:1 group wide pressure alarm input, input range DC5-57V</p> <p>4:1 group alarm output relay output, can define various custom conditions trigger</p> <p>5:1 group environment temperature and humidity detection, real-time monitoring of environmental conditions</p> <p>6: Real-time system key voltage monitoring and alarm output function</p> <p>7: real-time system temperature, ambient temperature, environment humidity alarm output function</p> <p>8: Real-time input voltage, current, power detection and display</p> <p>9: A variety of custom port control, intelligent management</p> |

| | |
|---------------------------------------|---|
| Network protocol | <p>IEEE 802.3x</p> <p>IEEE 802.3v IEEE 802.3u IEEE 802.3ab IEEE 802.3z</p> <p>IEEE 802.3ad</p> <p>IEEE 802.3q IEEE 802.3q/p</p> <p>IEEE 802.1w IEEE 802.1d IEEE 802.1S</p> <p>IEEE 802.3z 1000BASE-X</p> <p>STP(Spanning Tree Protocol)</p> <p>RSTP/MSTP(Rapid Spanning Tree Protocol)</p> <p>EPPS ring network protocol</p> <p>EAPS ring network protocol</p> |
| Network port | 1-8 port 10/100/1000BaseT (X) adaptive, Full/half duplex MDI/ MDI-X adaptive |
| Forward mode | Store-and-forward (full-line speed) |
| Backplane bandwidth | 20 Gbps (Non-blocking) |
| Packet forwarding rate | 14.88 Mpps |
| MAC table | 8K |
| Packet forwarding cache | 4.1M |
| Medium | <p>10BASE-T : Cat3,4,5 UTP(≤250 meter)</p> <p>100BASE-TX : Cat5 or later UTP(≤100 meter)</p> <p>1000BASE-TX : Cat6 or later UTP(≤1000 meter)</p> <p>1000BASE-SX:62.5μm/50μm MMF(2m~550m)</p> <p>1000BASE-LX:62.5μm/50μm MM(2m~550m) or 10μm SMF(2m~5000m)</p> |
| FLASH | 16M |
| RAM | 128M |
| Power consumption | ≤15W |
| LED indicator | <p>9 -10: (SFP indicator)</p> <p>Port (green/100M+yellow/1000M)</p> <p>PWR: (power indicator)</p> <p>PMX: (Power overload indicator light)</p> |
| Operating temperature/ humidity | -40~+85°C; 5%~90% RH No condensation |
| Storage temperature/ humidity | -55~+95°C; 5%~95% RH No condensation |
| Product size/package size (L*W*H) | 179×134×46mm |
| Net/gross weight (kg) | 1.0kg |
| installation | Rail mounting |
| Lightning protection/protection level | <p>Port lightning protection : 6KV 8/20us;</p> <p>Protection grade : IP40</p> |
| Safety certification | CE/LVD EN60950, RoHS |
| Quality assurance period | 2 Year |

| WEB software function | |
|---------------------------------------|--|
| standards | IEEE 802.3x IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z IEEE 802.3ad IEEE 802.3q、IEEE 802.3q/p IEEE 802.1w、IEEE 802.1d、IEEE 802.1S IEEE 802.3z 1000BASE-X STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) EPPS ring network protocol |
| MAC Address | 8K MAC addresses ; MAC address learning and aging |
| VLAN | 4k VLANs; Port-based VLANs; 802.1Q VLAN |
| Spanning Tree | STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) PPS ring network protocol EAPS ring network protocol 802.1x argumentation agreement |
| Link Aggregation | Max 8 aggregation groups, each supports 8 ports Static aggregation and dynamic aggregation |
| Port Mirror | Many-to-one port mirroring |
| Loop Guard | Loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking, automatic recovery |
| isolation | Support downlink ports isolated from each other and communicate with upstream port |
| Port flow control | Half duplex based back pressure control Full duplex based on PAUSE frames |
| line rate | Support port based input / output bandwidth management |
| IGMP Snooping | IGMPv1/2/3 MLDv1/2 Snooping GMRP protocol registration Multicast address management, multicast VLAN, multicast routing ports, static multicast addresses |
| DHCP | DHCP Snoping |
| Storm suppression | Unknown unicast, multicast, unknown multicast, storm suppression of broadcast type Storm suppression based on bandwidth tuning and storm filtering |
| Security | User port+IP address+MAC ACL based on IP and MAC Security properties of port based MAC address quantities |
| QOS | 802.1p port queue priority algorithm Cos/Tos、 QOS sign WRR (Weighted Round Robin)、 Weighted priority rotation algorithm WRR、 SP、 WFQ、 3 priority scheduling models |
| Port | Auto-MDIX ; Auto negotiation |
| system maintenance | Upgrade package upload; system log view WEB restore factory configuration |
| Industrial switch monitoring platform | RING ON/OFF、 RING status、 Alarm input/Output、 environment temperature and humidity detection, real-time monitoring of environmental conditions |
| Management and maintenance | WEB Remote configuration and maintenance using Telnet SNMP V1/V2/V3; SSHV1/V2 RMON |