Model: SML-8GP4S
Series: SAPPHIRE

L2 Managed Lite Industrial PoE switch 8*10/100/1000Base-T (RJ45 IEEE802.3af/at PoE) + 4*1000Base-X (SFP) Ports

Sapphire SML-8GP4S is a managed L2 industrial Ethernet switch providing 8 Gigabit RJ45 Ethernet and 4 Gigabit SFP ports. The 8 Ethernet ports support POE and provide maximum 30W/port output. It supports abundant L2 features such as VLAN STP/RSTP/MSTP ERPS QoS ACL and supports Web/CLI management and third-party SNMP management. It has IP40 protection class and meets EMC industrial level 4 requirements. The switch supports wide power input voltage range of 12-36VDC and wide operating temperature range of -40 to the +85°C. In addition to its compact size for space-saving installation each product has passed a 100% burn-in test at 85°C to ensure its quality high-reliability transmission.

All of these features make the product ideal for applications that require high-reliability transmission such as video surveillance tolling systems ITS and factory automation.

Applications

Industrial area department/workgroup PoE switch

Providing up to 8 PoE+, in-line power interfaces, the SML-8GP4S can easily build a power centrally controlled by IP phone system, IP camera system, or Wireless AP group for industrial network. For instance, 8 PoE IP cameras or wireless access points can be easily installed around the corner in the industrial environment for surveillance demands or for a wireless roaming network. Without the power-socket limitation, the SML-8GP4S makes the installation of ip cameras or wireless ap easier and more efficient.

With IEEE 802.3at power over ethernet plus standard, the SML-8GP4S can directly connect with any IEEE 802.3at end-nodes like PTZ (pan, tilt & zoom) network cameras, PTZ speed dome cameras, color touch-screen Voice over IP (VoIP) telephones, and multi-channel Wireless LAN access points. Wireless LAN would be more efficient for the transportation station to provide high speed and wide area internet services for travelers. With the PoE wireless LAN structure, the transportation authority gains benefits from less cost while providing better internet services in wider areas for travelers.

- -40 to 85°C operating temperature range
- IP40 protection class with metal housing
- Total PoE budget 240W
- Fanless design
- Level 4 EMC Protection
- PoE IEEE802.3af/at
- One key ring configuration
- ERPS with protection switching time ＜20ms
- WEB Telnet CONSOLE EMS management

General Information	
Brand Name	AADONA
Family Name	SAPPHIRE
Product Catagory	Industrial Switch
Model Name	SML-8GP4S
Warranty	3 year
Extended Warranty	2 Year

Standards	
IEEE 802.3 10base-T	Y
IEEE 802.3u 100base-Tx	Y
IEEE 802.3ab 1000base-T	Y
IEEE 802.3z 1000base-X	Y

Interface	
Consol Port	1xRS-232(RJ45)
Ethernet Ports	8x10/100/1000/base-T (RJ45)
SFP Ports	4x1000base-X (SFP)

LED indicator	
Power LED	Y
Interface LED	RJ45(link&ACT) Fiber(link&ACT)

Power	
Power Terminal	5-pin 5.08mm-spacing plug-in terminal block
Full load power consumption	< 13W (POE:<240W)
Overload Protection	Y
Reverse Connection Protection	Y
Redundancy Protection	Y

PoE Function	
IEEE 802.3.af	15.4W per port
IEEE 802.3.at	30W per port
Max PoE budget	240W

Software Features	
MAC Table	8K
Packet buffer	4M
VLAN	4K
VLAN Mode	Access/Trunk/Hybrid
802.1Q	Y
Port / protocol / MAC/IP subnet based VLAN	Y
QinQ and VLAN translation	Y
IGMP snooping	V1/v2/v3
IGMP proxy MVR	Y
DHCP client/sever/relay	Y
LACP	Port bandwidth extension load balance

STP	Y
RSTP	Y
MSTP	Y
ERPS with protection switching time	<20ms
One key ring configuration	STP/RSTP/ERPS
Loopback detection	Y
Loopback test	Y
8-queue QoS	Y
SP/WRR scheduling policy	Y
Rate limitation	Y
Traffic shaping	Y
DLF/multicast/broadcast limitation	Y
ACL	MAC / VLAN / IP / TCP / UDP port / ToS based
Dynamic MAC learning	Y
Static MAC configuration	Y
MAC address learning enable/disable per port	Y
MAC limitation per port	Y
Fiber RDI Remote Defect Indication) alarm	Y
Dying Gasp	Remote equipment fail alarm
Security	801.2x RADIUS TACACS+
HTTPS	Y
SSH	Y
Port mirror	Y
RMON	Group 1, 2, 3, 9
SNMP	v1 /v2 /v3
Dual OS (Firmware)	Y
Online update	Y
Configuration Backup & Restore	Y
CLI Management	Web management, console and telnet
Physical Characteristics	
Housing	Metal
Cooling	Fanless
Protection Class	IP40
Dimensions	45mm x 179mm x 100mm(W×H×D)
Weight	0.80kg
Mounting	DIN-Rail or Panel mounting
Environmental Specifications	
Operating Temperature	-40 to 85°C
Storage Temperature	-45 to 85°C
Ambient Relative Humidity	5 to 95% (non-condensing)
Durability Specifications	
MTBF	360000 hrs
Regulatory Approvals	
Safety and Certifications	CE, EN, LVD, RoHS EN61000-4-5 (for RJ45 Port, Surge 6KV) EN 55032:2015 EN 55024:2010 + A1:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 60950 – 1:2006 ISO Standard: ISO 9001:2015 ISO 14001:2015 ISO 27001:2013

AADONA
GOING BEYOND VISION

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