



SAPPHIRE SUS-8GE2S

Gigabit Unmanaged Switch - 8*10/100/1000Tx + 2*100/1000 SFP Slots

Robust Features for Industrial Ethernet Networks with Plug and Play Configuration

Designed for heavy industrial demanding environments, AADONA's new SUS-8GE2S comes with high-density 8 10/100/1000BASE-TX ports, 2 additional Gigabit SFP interfaces and redundant power system. Though it includes robust features designed for industrial Ethernet networks, its Plug and Play makes configuration easy. With the IP30-rated rugged but compact-sized case, it can operate stably under the temperature range from -40 to 75 degrees C and can be installed in any difficult environment without space limitation.

Two Gigabit Uplink Ports

The SUS-8GE2S provides two extra Gigabit SFP interfaces that enable the network administrators to increase their network bandwidth to relieve traffic congestion when the two 10/100/1000BASE-T uplink ports are used to connect devices, such as NVR, video streaming server, NAS and more. With the diverse design, the administrators can easily connect network devices no matter how large the network expansion is.

Flexibility and Long-distance Extension Solution

Through the two shared Gigabit-speed fiber SFP slots, it can also connect with the 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber transceiver to uplink to backbone switch and monitoring center in long distance. The distance can be extended from 550 meters (multi-mode fiber) to 120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the industrial data centers and distributions.

Environmentally Hardened Design

The SUS-8GE2S possesses an integrated power supply source with a wide range of voltages (12 to 48V DC) for worldwide high availability applications requiring dual or backup power inputs. It also provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in the curbside traffic control cabinets.

Robust Protection

The SUS-8GE2S provides a contact discharge of $\pm 6\text{KV}$ DC and air discharge of $\pm 8\text{KV}$ DC for Ethernet ESD protection. It also supports $\pm 6\text{KV}$ surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

Key Features

- 8-port 10/100/1000Tx Gigabit Ethernet
- 2*100/1000 Gigabit SFP Ports
- Redundant Power Input Design, 12-48VDC
- Built-in Relay Output Warning for Power Failure
- IP30 Rugged Metal Case Design
- DIN-Rail Mounting, Wall Mounting
- Operating Temperature Range - STD: -10°C ~ 65°C, EOT: -40°C ~ 75°C

Applications

Industrial-grade Switch for Building Automation and Security

The SUS-8GE2S's IP30-rated metal case is particularly designed for heavy industries, such as factories, harbors, warehouses, and more. Suitable for buildings where security is strictly enforced, the SUS-8GE2S, with 8 Gigabit interfaces, can easily build an IP phone system, IP surveillance system, security control system and wireless AP group in the harsh Industrial environment.

FTTx Solutions for MAN Application

To build a network solution of FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) for ISPs, and FTTB (Fiber to the Building) for enterprises, the various distances of SFP and WDM transceivers are optional for customers. With two Gigabit-speed SFP slots built in, the deployment distance of the SUS-8GE2S can be extended up to 120 kilometers (single-mode fiber), which provides a high-performance edge service for FTTx solutions. The SUS-8GE2S is the ideal solution for service providers such as ISPs and telecoms to build Metropolitan Area Network (MAN) based on fiber technology.

SPECIFICATIONS

BASIC	
Product Description	10-Port Industrial Ethernet Switch - 8*10/100/1000Tx + 2*100/1000 Gigabit SFP Ports
Model Name	SUS-8GE2S
Product Family	Sapphire
Total No of Ports	8 + 2 = 10
Warranty	5 Year Warranty Pack
TECHNOLOGY	
Standards	IEEE 802.3 10BaseT Ethernet
	IEEE 802.3u 100BaseTX Fast Ethernet
	IEEE 802.3ab 1000BaseT
	IEEE 802.3z 1000Base-X Gigabit Fiber
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x flow control, back pressure flow control
SWITCH PROPERTIES	
Switch Architecture	Back-Plane: Non-Blocking Switching Fabric
Switching Fabric	20Gbps
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port
Memory Buffer	4Mbits
MAC Table size	8K
Jumbo Frame	9.6Kbytes
INTERFACE	
RJ45 Ports	8*10/100/1000BaseT(X), Auto-negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Ports	2*100/1000 SFP Ports
LED Indicators	Power 1, Power 2, Fault Ethernet Ports: On-Link/Flash-data transmitting SFP: Link/Active
Wavelength	Depends on SFP modules
Network Cable	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
POWER REQUIREMENTS	
Input Voltage	12-48VDC, Redundant Input
Overload Current Protection	Present(Slow-Blow Fuse)
Power Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Power Consumption	10Watts
Relay Contact	24VDC, 1A resistive

MECHANICAL CHARACTERISTICS	
Housing	Metal, IP30 protection
Dimensions	46 x 142 x 99 mm (W x H x D)
Weight	Unit Weight: 1.36kg, Shipping Weight: 1.56kg
Mounting	DIN-Rail Mounting, Wall Mounting
ENVIRONMENTAL LIMITS	
Operating Temperature	STD: -10°C ~ 65°C (14°F ~ 149°F) EOT: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)
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

***ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.**



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