

SWITCH 2008GT-2SFP

Unmanaged Industrial Switch 8 x 10/100/1000 RJ45 & 2 x GbE SFP



8 RJ45 plus 2 SFP ports unmanaged industrial Gigabit Ethernet switch

SWITCH 2008GT-2SFP is an 8-port 10/100/1000Base-T and 2-slot Gigabit SFP Unmanaged Industrial Gigabit Ethernet Switch. Designed for harsh demanding industrial environments the switch operates in wide temperatures ranging from -40°C to 75°C and withstands regular to high degrees of vibration and shock. SWITCH 2008GT-2SFP supports both Gigabit and Fast Ethernet speeds and offers a simple plug-and-play feature with Auto MDI/MDIX and Auto-negotiation to offer greater flexibility in choosing the type of connectivity you need. In addition, the switch supports advanced Storm Control and a variety of QoS functionalities to ensure the delivery of critical data with optimized network traffic. With 2-slot Gigabit SFP, the switch can be expanded by cascading two or more switches together in a 'daisy-chain' fashion. To offer protection in the case of power shortage or accidents the switch offers redundant power supply and built-in relay alarm for instant notification of power and port failure.

ORDER DETAILS

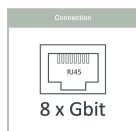
Function: 8 x 10/100/1000 RJ45 and 2 x SFP unmanaged ports, flow-, storm control, VLAN, QoS for Profinet, GOOSE and Ethernet-IP, LLDP, DIP switch, alarm, redundant power supply, EEE,

22 ... 53 V DC, width: 55 mm

SKU/Order No.: SA-2008-GS-01-00



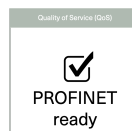
Features



8 x Gbit RJ45 Ports
8 x 10/100/1000 BASE-T RJ45 Ports



2 x Gbit Ethernet SFP Ports
2 x Gbit Ethernet SFP Ports



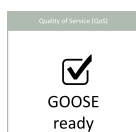
Optimal Bandwidth Utilization for Profinet

The switch recognizes frames for Profinet and ensures prioritized forwarding with least delay possible. Thereby, the switch enhances bandwidth utilization to ensure the data gets delivered efficiently to mission-critical applications, even during burst of high traffic.



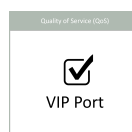
Optimal Bandwidth Utilization for EtherNet/IP

The switch recognizes frames for EtherNet/IP and ensures prioritized forwarding with least delay possible. Thereby, the switch enhances bandwidth utilization to ensure the data gets delivered efficiently to mission-critical applications, even during burst of high traffic.



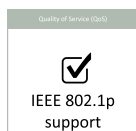
Optimal Bandwidth Utilization for GOOSE

The switch recognizes frames for GOOSE (Generic Object-Oriented Substation Events) and ensures prioritized forwarding with least delay possible. Thereby, the switch enhances bandwidth utilization to ensure the data gets delivered efficiently to mission-critical applications, even during burst of high traffic.



Port based QoS

The switch has two integrated VIP ports (ports 1 and 2) that support IEEE802.1p Quality of Service (QoS). These two ports classify and prioritize traffic, sending it only from the highest priority queues when it arrives to ensure that traffic is forwarded with the least possible delay.



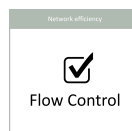
Optimal bandwidth utilization through prioritization

The IEEE 802.1p specification defines the transport of data with different priorities. The switch identifies high-priority data and forwards it faster. This allows to distinguish more important data from less important data and ensures a steady network traffic with high availability.



Storm Control

The switch counts the number of packages of a specified type received within a defined time interval and compares the measurement with a predefined threshold.



Flow Control

When using the Flow Control technology, the receiving device can send a so-called PAUSE frame. This causes the transmitter to stop sending new data. The result is a reduction in frame dropping, which reduces network load and increases availability.



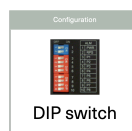
VLAN-support

A VLAN (Virtual Local Area Network) separates a physical network into virtual subnets. The main advantage of using VLAN is the reduction of the overall communication load and the possibility to prioritize the subnets differently.



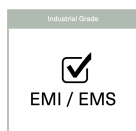
Redundant Power Supply for Reliable Networks

If the primary power supply fails, the switch is immediately supplied with a second, redundant power supply, ensuring the continuous operation of network services for critical applications in industrial environments.



DIP Switch for Easy Configuration

DIP switch for switching the external alarm or redundant power supply on and off, without software.



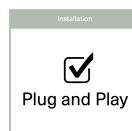
Industrial Grade EMI/EMS

The Switch need to be robust enough to handle harsh field site conditions, which can include high-voltage transients, severe shock and vibration, and extremely high temperatures.



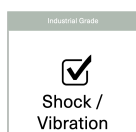
IP30 Metal Housing Protection

Rugged IP30 grade aluminum housing to withstand highest vibration, heavy shocks, humidity and extreme temperatures.



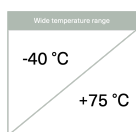
Easy Installation “plug-n-play”

Featuring Auto-MDI/MDIX and Auto-negotiation on all ports, the Switch automatically detects and configures the best mode of operation over a link. This eliminates the need of user setup or configuration procedure and simplifies installation.



Shock/Free-fall/Vibration Approval

According IEC 60068 all tests approved



Wide Operating Temperature

Industrial rugged metal housing featuring wide operating temperature range designed for harsh environments.



Green Ethernet Design

IEEE802.3az Energy Efficient Ethernet (EEE) compliant Green Ethernet technology. This eco-friendly design allows the switch to automatically adjust power consumption and conserve energy during the periods of low data activity.



Efficient Network Monitoring and Proactive Capability

In a network, the issues that impact network performance can be quickly resolved with the Network-Switch most accepted and enhanced traffic management protocols such as SNMP v1/v2c/v3 which gives an enhanced approach for real-time traffic analysis, remote-monitoring and management of individual switches within an industrial network, this avoids high OPEX. The Switch is assimilated with intelligent e-mail alarm system and SNMP Trap functionality to detect system abnormality along with Faster Troubleshooting. In addition to this, the device maintains a system log for the subsequent analysis of abnormal and unwanted flaws.

Technical Data

IEEE Standards

IEEE 802.3	10Base-T
IEEE 802.3U	100Base-TX
IEEE 802.3AB	1000Base-T
IEEE 802.3	Nway Auto-negotiation
IEEE 802.3X	Flow Control
IEEE 802.3AZ	Energy Efficient Ethernet (EEE)
IEEE 802.1P	Quality of Service(QoS)

Interface

Ports (RJ45)	8 x 10/100/1000Base-T
Ports (SFP)	2 x 1000 BASE-SX/LX SFP-Ports
DIP Switch	Power voltage drop alarm setting (PWR & RPS), Voltage drop alarm setting
LED Panel	PWR, RPS, ALM, SFP, 1000, LNK/ACT

Switch Features

Jumbo Frame Size	10 k
MAC Table size	8 k
L2 Forwarding Rate	14.8 Mpps
Throughput	14,880 pps to 10 Mbps ports; 148,800 pps to 100 Mbps ports; 1,488,000 pps to 1000 Mbps ports
Switch Fabric	20 Gbps

Input Data

Input Voltage Range DC	21.6 ... 52.8 V
Input Current (typ.)	1 A
Power Consumption (max.)	11 W

Output Data

Contact Rating DC (resistive load)	Alarm relay; 24 V, 1 A
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Mechanical Data

Housing	Metal
Mounting DIN Rail according EN 60715	TH35
Weight (typ.)	480 g

Ambient Condition

Ambient Temperature (operating)	-40 °C ... 75 °C (UL: -40 °C ... 70 °C)
Ambient Temperature (storage/transport)	-40 °C ... 85 °C
Operating Humidity (non-condensing)	5 ... 95 % RH
Storage Humidity (non-condensing)	5 ... 95 % RH

Dimensions

Width	55 mm
Depth	99.6 mm
Height	115.8 mm

Standards and Regulations

Electromagnetic Interference (EMI)	FCC Part 15 Subpart B class A; EN 55011:2016 class A; EN 55032 class B; EN 61000-6-4
Environmental Management Systems (EMS)	EN 55024; EN 61000-6-2; EN 61000-4-2 (ESD) : Level 3; EN 61000-4-3 (RS) : Level 3; EN 61000-4-4 (EFT); EN 61000-4-5 (Surge) : Level 3; EN 61000-4-6 (CS): Level 3; IEC61000-4-8(PFMF)
Shock Test	IEC 60068-2-27

Free-fall Test	IEC 60068-2-31
Vibration	IEC 60068-2-6
Safety Standard	UL61010
RoHs	Yes

Commercial Data

Customs Tariff Number	85176200
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