SWITCH 2008GT

Unmanaged Industrial Switch 8 x 10/100/1000 RJ45

8-port unmanaged industrial Gigabit Ethernet switch

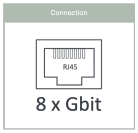
The 8-port industrial Gigabit Ethernet switch of SALZ Automation is an unmanaged industrial Gigabit Ethernet switch specifically designed to suit your heavy industrial environments. The SWITCH 2008GT is an environmental friendly product as it incorporates Green Ethernet design, IEEE802.3az - Energy Efficient Ethernet (EEE), to significantly reduce power consumption as well as operation costs. Well protected in a rugged IP30 grade housing, the switch ensures dependable and uninterrupted operations even in harsh environments, making it an ideal networking solution for Industrial applications. Equipped with 8 x 10/100/1000BASE-T ports, the SWITCH 2008GT supports both Gigabit and Fast Ethernet options with Auto MDI/MDIX and Auto-negotiation to offer greater flexibility in choosing the type of connectivity you need. In addition to high-speed data transmissions, the switch supports 9K jumbo frame to increase throughput and QoS on ports-1&2 to ensure delivery of critical data. Redundant power supply with wide-range input power, built-in relay alarm for instant notification of power and port failure, DIN-Rail mounting and many more features of the SWITCH 2008GT fulfill the special needs of Industrial Ethernet networks.

ORDER DETAILS

Function: 8 x 10/100/1000 RJ45 unmanaged ports, flow control, VLAN support, port-based QoS, DIP switch config, alarm out, redundant power supply, energy efficient Ethernet, 9 ... 57 V DC, width: 55 mm
SKU/Order No.: SA-2008-GT-01-00

CE

Features



8 x Gbit RJ45 Ports

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

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.

Flow Control

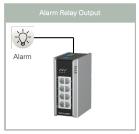
When using the Flow Control technology, the receiving device can send a so-called PAUSE frame. This causes the transmitter to stop sending new data. The result is a reduction in frame dropping, which reduces network load and increases availability.

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.

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.

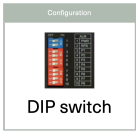


Alarm Contact Output

The Switch has built in relay contact outputs that trigger alarms to notify network engineers in the event of power failure, and enables them to quickly respond and resolve high priority issues.

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.

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.

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

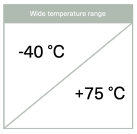
Rugged IP30 grade aluminum housing to withstand highest vibration, heavy shocks, humidity and extreme temperatures.

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

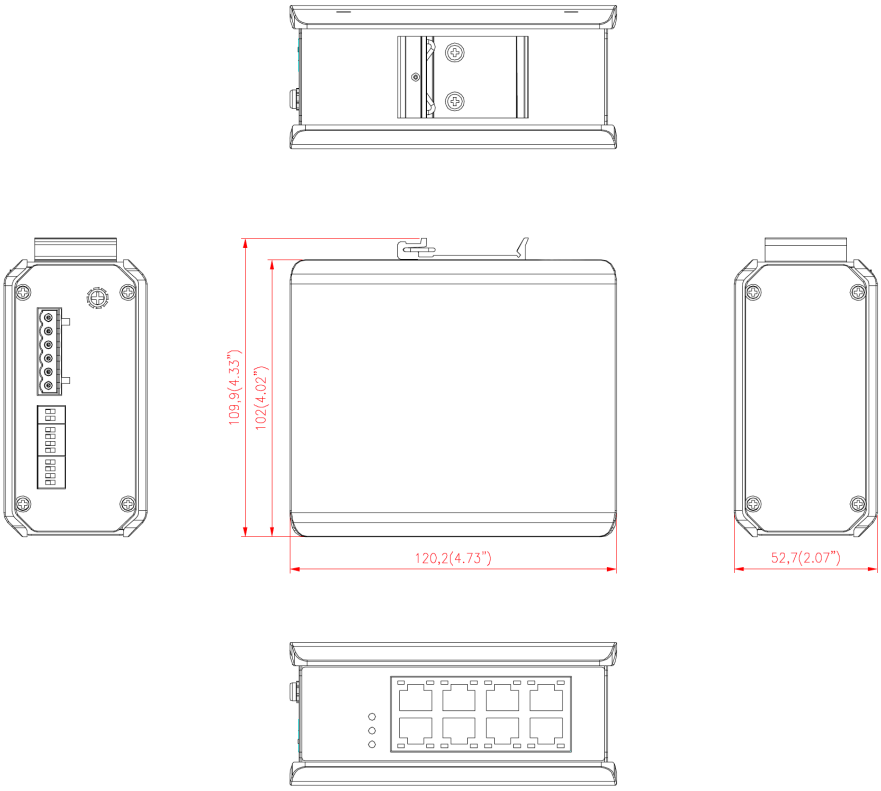
According IEC 60068 all tests approved



Wide Operating Temperature

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

Mechanical Dimensions



Dimension Drawing SWITCH 2008GT

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 802.1P	Quality of Service(QoS)
IEEE 802.3AZ	Energy Efficient Ethernet (EEE)

Interface

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

Switch Features

Jumbo Frame Size	9 k
MAC Table size	8 k
L2 Forwarding Rate	11.9 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	16 Gbps

Input Data

Input Voltage Range DC	9 ... 57 V
Input Current (typ.)	1 A
Power Consumption (max.)	5 W

Output Data

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

Mechanical Data

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

Ambient Condition

Ambient Temperature (operating)	-40 °C ... 75 °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	52.7 mm
Depth	102 mm
Height	120.2 mm

Standards and Regulations

Electromagnetic Interference (EMI)	FCC Part 15 Subpart B class A; EN 55011; 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 (Burst) : Level 3; EN 61000-4-5 (Surge) : Level 3; EN 61000-4-6 (CS): Level 3; IEC61000-4-8(PFMF); EN 61000-4-11
Shock Test	IEC 60068-2-27
Free-fall Test	IEC 60068-2-32
Vibration	IEC 60068-2-6
Safety Standard	UL61010
RoHs	Yes

Commercial Data

Customs Tariff Number	85176200