

# SWITCH 2005GT

## Unmanaged Industrial Switch 5 x 10/100/1000 RJ45



### 5-port unmanaged industrial Gigabit Ethernet switch

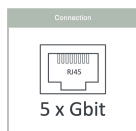
The 5-port industrial Gigabit Ethernet switch of SALZ Automation is an unmanaged industrial Gigabit Ethernet switch specifically designed to suit your heavy industrial environments. Well protected in a rugged IP30 grade housing, the switch ensures dependable and uninterrupted operations even in harsh environments, making it an ideal networking solution for Industrial applications. Equipped with 5 x 10/100/1000BASE-T ports, the SWITCH 2005GT 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 transfers, the switch supports 9K jumbo frame to increase throughput and QoS for PROFINET and GOOSE to ensure delivery of critical data for these protocols. Redundant power supply with wide-range input, built-in relay alarm for immediate notification of power and port failure, DIN rail mounting, and many other features of the SWITCH 2005GT meet the special requirements of Industrial Ethernet networks.

### ORDER DETAILS

**Function:** 5 x 10/100/1000 RJ45 unmanaged ports, flow control, QoS for Profinet and GOOSE,  
9 ... 48 V DC, width: 29.5 mm  
**SKU/Order No.:** SA-2005-GT-01-00



# Features

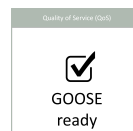


**5 x Gbit RJ45 Ports**  
10/100/1000 BASE-T RJ45 Ports



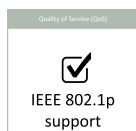
**Optimal Bandwidth Utilization for Profinet**

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.



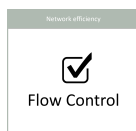
**Optimal Bandwidth Utilization for GOOSE**

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.



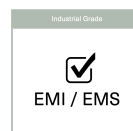
**Optimal bandwidth utilization through prioritization**

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.



**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.



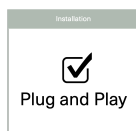
**Industrial Grade EMI/EMS**

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.



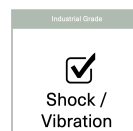
**IP30 Metal Housing Protection**

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



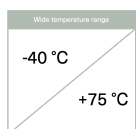
**Easy Installation "plug-n-play"**

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**

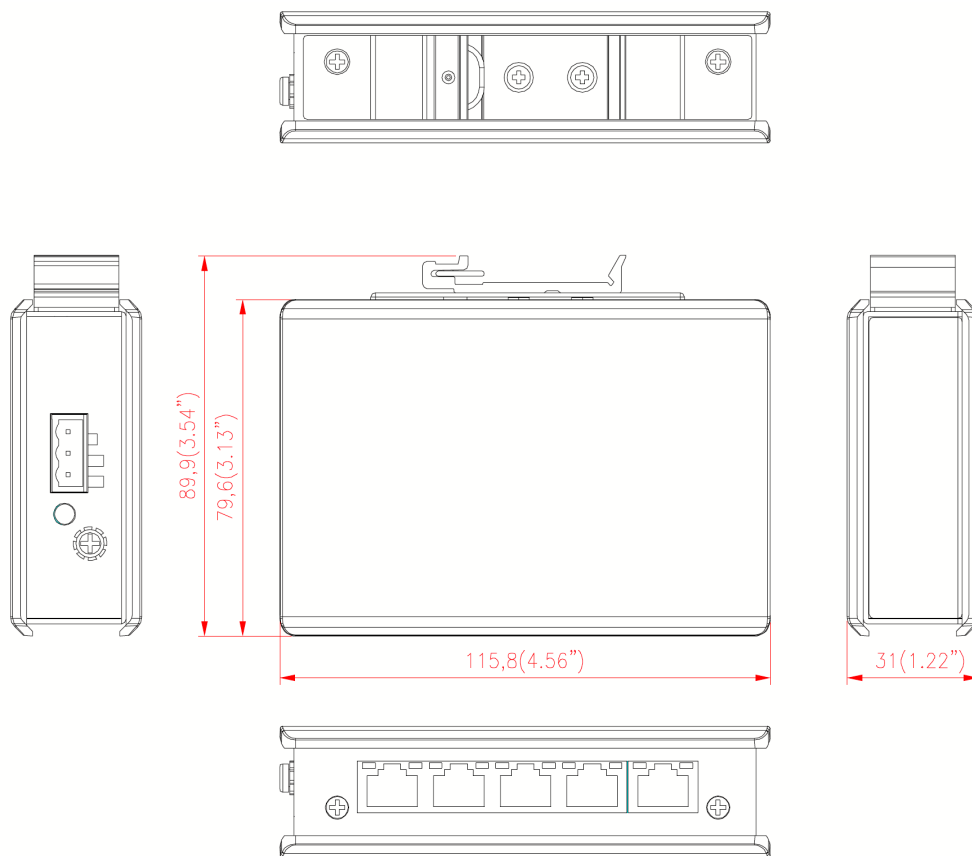
According IEC 60068 all tests approved



**Wide Operating Temperature**

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

# Mechanical Dimensions



Dimension drawing

# 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)

## Interface

Ports (RJ45)	5 x 10/100/1000Base-T
LED Panel	PWR, 1000, 10/100

## Switch Features

Jumbo Frame Size	10240 Bytes
MAC Table size	2 k
L2 Forwarding Rate	7.4 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	10 Gbps
PROFINET QoS	Via VLAN 0
GOOSE QoS	Via EtherType

## Input Data

Input Voltage Range DC	9 ... 48 V
Input Current (typ.)	0.5 A
Power Consumption (max.)	4 W

## Mechanical Data

Housing	Metal
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Mounting DIN Rail according EN 60715	TH35
Weight (typ.)	160 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	31 mm
Depth	79.6 mm
Height	115.8 mm

### Standards and Regulations

Electromagnetic Interference (EMI)	FCC Part 15 Subpart B class A; EN 55011; EN 55022; 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
RoHs	Yes

### Commercial Data

Customs Tariff Number	85176200
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