

## Gazelle S1508i-2GF-4GE-PWR| L2 Manageable Industrial POE Switch



### Product Overview

The Gazelle S1508i-2GF-4GE-PWR is a Layer 2 Din-Rail manageable industrial POE switch designed to satisfy the requirements of data transmission in areas of transportation (EN50121-4), smart grid (IEC 61850-3, IEEE 1613), energy and industrial automation. The design enables maximum flexibility among electrical, SFP interfaces. Gazelle S1508i-2GF-4GE-PWR also supports POE function with max 4 IEEE802.3at ports or 4 IEEE802.3af ports. Products in the series adopt IP30 housing and fan-less design with a wide operating temperature range from - 40 to 75°C. DIN-Rail, wall mounting and rack mounting are all supported. It supports up to 2 GF uplinks, and 4 GE downlinks. Network redundancy and reliability are guaranteed with LACP, G.8032 ERPS (<50ms switch-over time), DC48V(44~57VDC) power supply.

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### Highlights

- Max 4 IEEE802.3at ports or 4 IEEE802.3af ports
- Compliant with IEC 61850-3 and IEEE 1613 (power substations) as well as EN50121-4 (railway applications)
- Support standardized G.8032 Ethernet ring protection switching with a recovery time less than 50ms
- LACP for optimizing bandwidth utilization
- VLAN and Basic QinQ
- Wide operating temperature range
- IP30 protection level
- Rugged Din-Rail design
- MTBF > 35 Years

### Specifications

**Interface:**

2\*100Base-FX/1000Base-X SFP based Ports  
4\*10/100/1000Base-T RJ-45 electrical Ports  
(max 4 IEEE802.3at ports or 4 IEEE802.3af Ports)

Console: 1\* RJ45

Relay alarm output: 1\*1 S.P.D.T.

**Digital Inputs: 1**

+13 to +30 V for state "1"

-30 to +1 V for state "0"

Max input current: 8 mA

(1 input with the same ground)

Dimensions: 155mm(H)x59mm(W)x130mm(D)

Weight: 1.2Kg

Installation: Din-Rail, wall mountable, rack-mountable(tray installed)

Operating temperature: - 40 to 75°C

Storage temperature: -40 to 85°C

Humidity: 5% to 95%, non-condensing

**Power supply (input Voltage):**

-DC 48V(44V-57VDC) redundant dual inputs

( > 51 VDC for PoE+ output recommended)

System power consumption: <7W

POE output power	
Operating temperature	Power
- 40 to 60°C	Max 120W
- 40 to 65°C	Max 60W
- 40 to 75°C	Max 30W

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### POE features

- Compliant with 802.3af/at standards
- Power detection and classification
- Support POE(+) Power consumption limitation
- output power settings by manual or automatic

### Access Capacity

- MTU: 10K byte
- Switching buffer size: 1Mbit

### Ethernet

- Up to 8k MAC
- Support 4,094 VLANs
- IEEE 802.3x and back pressure flow controls
- N:1 port-based mirror and flow-based mirror

### IP Services

- DHCP client/option82
- IGMP snooping v1/v2/v3

### Traffic Management

- Service classification per port/CoS (DSCP)
- Support SP (Strict Priority), WRR (Weighted Round Robin), scheduling modes and up to 4 queues per port
- Port-based mirroring
- Rate limit per port/CoS (DSCP)
- Traffic shaping in egress direction

### Security

- Secure MAC address
- RADIUS, TACACS+
- User management and password protection
- PPPoE Agent
- dot1x, port protection
- Storm control (broadcast, multicast, DLF)

### Reliability

- Link aggregation group (LAG) – up to 6 groups with maximum 8 ports in each group, and load balancing mode based on source/destination IP and/or MAC

- STP/RSTP/MSTP, G.8032 ERPS (recovery time less than 50ms), and IEC62439-6 redundant ring protections
- Port-based Ethernet local loop detection: auto shutdown and recover individual port upon fault signals

### Ethernet OAM

- IEEE 802.1ah EFM-OAM link management
- Dying gasp message in case of power failure

### System Management

- Remote management via SNMP v1/v2c/v3, Telnet, CLI and SSH v1/v2
- Local management via console interface
- Web GUI
- Raisecom Nview NMS/EMS
- KeepAlive, RMON, Syslog
- Relay output alarm, Dry contact alarm, and trap alarm management

### Standard Compliance

- IEEE 802.1Q (VLAN), 802.1ad (QinQ), 802.1D (STP), 802.1w (RSTP), 802.1s (MSTP), 802.1p (QoS/CoS Priority), 802.1x (Security), 802.3ad (LAG), 802.1ah (EFM), 802.3x (Flow control), 1613(sub-station)
- ITU-T G.8032 (ERPS)
- IEC61000-4-2 (ESD), 61000-4-3 (RS), 61000-4-4 (EFT), 61000-4-5 (Surge), 61000-4-6(RF transmission), 61000-4-8 (Power frequency magnetic fields), 61000-4-9 (Pulsed magnet field), 61000-4-10 (Damped oscillation), 61000-4-12/18 (Shockwave), 61000-4-16 (Common-mode conduction), 61000-6-2 (General industrial standard), 60068-2-6 (Anti-vibration), 60068-2-27 (Shock resistance), 60068-2-32 (Free falling), 61850-3 (transformer substation)
- FCC Part 15/CISPR22 (EN55022): Class A
- In compliance with KEMA, CE and ROHS

### Device Size

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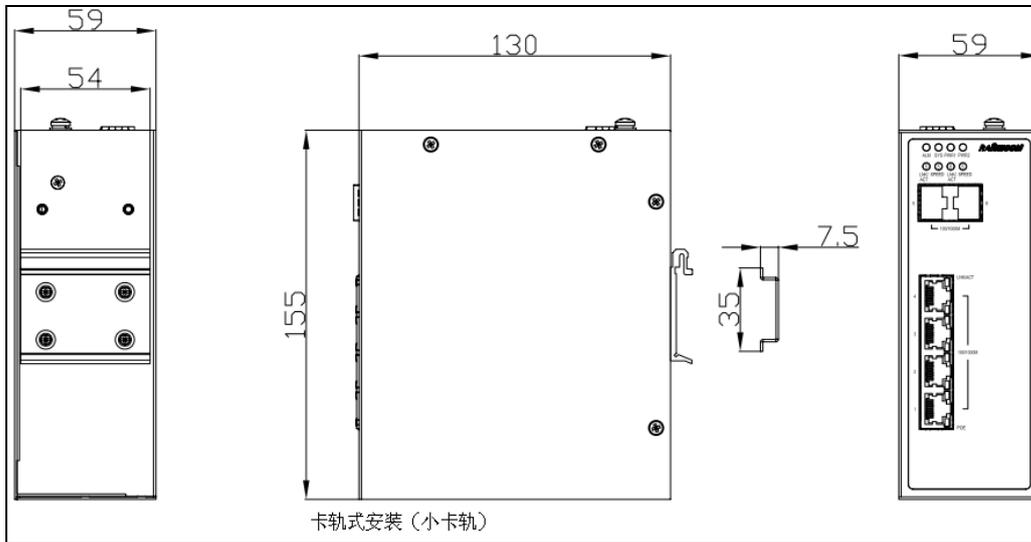
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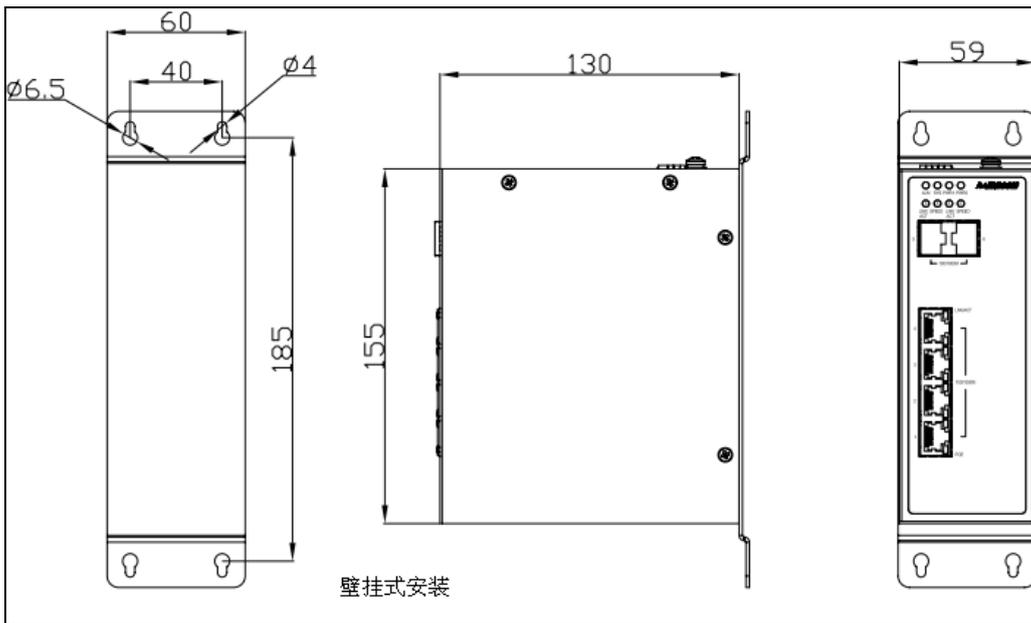
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**Din Rail**



**Wall Mounting**

**Ordering Information**

Model	Description
Gazelle S1508i-2GF-4GE-PWR-DC48	L2 Din-Rail manageable industrial POE switch with 2*100Base-FX/1000Base-X SFP Ports, 4*10/100Base-TX RJ-45 electrical Ports(POE: max 4 IEEE802.3at ports or IEEE802.3af ports) and 48V DC(44V-57V)power supply
SDR-75-48	Din-Rail Industrial Power Supply, 75W, max 2 IEEE802.3at ports or 4 IEEE802.3af ports;



	Input: 220VAC; Output:48/52 VDC
SDR-120-48	Din-Rail Industrial Power Supply, 120W, max 4 IEEE802.3af ports or 8 IEEE802.3af ports; Input: 220VAC; Output:48/52 VDC



Remarks:  
SDR-75-48  
SDR-120-48



Gazelle S1508i

## Gazelle S1508i | Full-Gigabit L2 Manageable Industrial Switch

### Product Overview

The Gazelle S1508i is a Full-Gigabit Layer 2 Din-Rail manageable industrial switch designed to satisfy the requirements of data transmission in areas of smart grid (IEC 61850-3, IEEE 1613), transportation (EN50121-4), energy and industrial automation. The design enables maximum flexibility among electrical, SFP and GE combo interfaces. It supports up to 4GE uplinks and 4GE downlinks. Network redundancy and reliability are guaranteed with LACP, G.8032 ERPS (<50ms switch-over time), and 24/48 VDC or 220 VDC/VAC power supply.

### Highlights

- Compliant with IEC 61850-3 and IEEE 1613 (power substations) as well as EN50121-4 (railway applications)
- Support standardized G.8032 Ethernet ring protection switching with a recovery time less than 50ms
- LACP for optimizing bandwidth utilization
- VLAN and flexible QinQ
- Wide operating temperature range
- IP40 protection level
- Rugged Din-Rail design
- MTBF>35 years

### Specifications

- Interface:
  - 2\*GE combo(2\*100Base-FX/1000Base-X SFP or 2\*10/100/1000Base-TX RJ45) ports
  - 2\*100Base-FX/1000Base-X SFP ports
  - 4\*10/100/1000Base-TX RJ-45 electrical ports
- Console: 1\*RJ45 port
- Relay alarm output: 1\*1 S.P.D.T.
- Dimensions: 121mm(D)\*80mm(W)\*155mm(H)
- Weight: 1.23Kg
- Installation: Din-Rail, wall mountable, rack-mountable(tray installed)
- Operating temperature: - 40 to 85°C
- Storage temperature: -40 to 85°C
- Humidity: 5% to 95%, non-condensing
- Power supply (input Voltage):
  - DC 48V (20-72V)
  - AC/DC 220V (AC: 85-264V; DC: 88-300V)
- Power consumption: <12W

### Access Capacity

- MTU: 1632 byte
- Switching buffer size: 1Mbit

### Ethernet

- Up to 8k MAC
- Support 4094 VLANs, basic QinQ

- IEEE 802.3x and back pressure flow controls
- N:1 port-based mirror and Vlan-based mirror

### IP Services

- DHCP client/snooping/option82
- IGMP snooping v1/v2/v3, GMRP, GARP, multicast filtering, unknown multicast discard, static

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multicast group and 1024 multicast groups

#### Traffic Management

- Service classification per port/VLAN/CoS (DSCP)
- Support 802.1p CoS, DSCP and port priority
- Support SP (Strict Priority) , and WRR (Weighted Round Robin) scheduling modes, and up to 4 queues per port

#### Security

- Secure MAC address
- RADIUS, TACACS+
- User management and password protection
- dot1x, port protection
- Storm control (broadcast, multicast, DLF)

#### Reliability

- Link aggregation group (LAG) – up to 8 groups with maximum 8 ports in each group, and load balancing mode based on MAC
- STP/RSTP/MSTP, G.8032 ERPS (recovery time less than 50ms), and IEC62439-2(MRP) redundant ring protections
- Port-based Ethernet local loop detection: auto shutdown and recover individual port upon fault signals

#### System Management

- Remote management via SNMP v1/v2c/v3, Telnet, CLI and SSH v1/v2

- Local management via console interface
- Raisecom Nview NMS
- KeepAlive, RMON, Syslog
- Relay output alarm, Dry contact alarm, and trap alarm management

#### Standard Compliance

- IEEE 802.3, IEEE 802.1Q (VLAN), 802.1ad (QinQ), 802.1D (STP), 802.1w (RSTP), 802.1s (MSTP), 802.1p (QoS/CoS Priority), 802.1x (Security), 802.3ad (LAG), 802.3x (Flow control)
- IEEE 1613(sub-station)
- ITU-T G.8032 (ERPS)
- IEC61000-4-2 (ESD), 61000-4-3 (RS), 61000-4-4 (EFT), 61000-4-5 (Surge), 61000-4-6(RF transmission), 61000-4-8 (Power frequency magnetic fields), 61000-4-9 (Pulsed magnet field), 61000-4-10 (Damped oscillation), 61000-4-12/18 (Shockwave), 61000-4-16 (Common-mode conduction), 61000-6-2 (General industrial standard), 60068-2-6 (Anti-vibration), 60068-2-27 (Shock resistance), 60068-2-32 (Free falling), 61850-3 (transformer substation)
- FCC Part 15/CISPR22 (EN55022): Class A
- In compliance with KEMA, CE and ROHS

#### Ordering Information

Model	Description
Gazelle S1508i –DCW48	Full-Gigabit L2 Din-Rail manageable industrial switch with 2*GE combo ports, 2*100Base-FX/1000Base-X SFP ports, 4*10/100/1000Base-TX RJ-45 electrical ports, and DC 48V (20-72V) power supply
Gazelle S1508i -AC	Full-Gigabit L2 Din-Rail manageable industrial switch with 2*GE combo ports, 2*100Base-FX/1000Base-X SFP ports, 4*10/100/1000Base-TX RJ-45 electrical ports, and AC/DC 220V (AC: 85-264V; DC: 88-300V) power supply

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