



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: 306,600 hours

### Specifications

- Interface:
  - 2xGE combo ports
  - 2x1000Base-X SFP ports
  - 4x10/100/1000Base-TX RJ-45 electrical ports
- Ports SNMP/Console: 1 x RJ45
- Relay alarm output: 1x1 S.P.D.T.
- Dimensions: 121mm(D)× 80mm(W) x155mm(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 24(10-36V)
  - 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 256 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 2xGE combo ports, 2x1000Base-X SFP ports, 4x10/100/1000Base-TX RJ-45 electrical ports, and DC 48V power supply
Gazelle S1508i -AC	Full-Gigabit L2 Din-Rail manageable industrial switch with 2xGE combo ports, 2x1000Base-X SFP ports, 4x10/100/1000Base-TX RJ-45 electrical ports, and AC 220V power supply

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