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Datasheet

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.

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

International Headquarters
Building 2, No. 28 of the Shangdi 6th Street,
Haidian District,Beijing. 100085, China
Tel: +86 10 8288 3305
Fax: +86 10 8288 3056
www.raisecom.com

U.S.A. Headquarters
19337 US 19 North, Suite 306
Clearwater, Florida. 33764. USA.
Tel: +1 888 816 4808
Fax: +1 727 547 9124
Email: sales@raisecomusa.com

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	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:<120W

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/snooping/option82
- IGMP snooping v1/v2/v3, multicast filtering, unknown multicast discard, static multicast group

Traffic Management

- Service classification per port/VLAN/CoS (DSCP)
- Support SP（Strict Priority）, WRR（Weighted Round Robin）, scheduling modes and up to 4 queues per port
- Flow statistics and flow-based mirroring
- Rate limit per port/VLAN/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),

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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

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
RDR-75-48	Din-Rail Industrial Power Supply, 75W, max 2 IEEE802.3at ports or 4 IEEE802.3af ports; Input: 220VAC; Output:52 VDC
RDR-120-48	Din-Rail Industrial Power Supply, 120W, max 4 IEEE802.3at ports or 8 IEEE802.3af ports; Input: 220VAC; Output:52 VDC

Remarks:
RDR-75-48
RDR-120-48

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