



Gazelle S1503i | L2 Manageable Din-Rail Industrial Switch

Product Overview

The Gazelle S1503i is a Layer 2 Din-Rail manageable industrial switch which is 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 and SFP interfaces. It supports up to 1*GE SFP based uplinks, and 2 electrical GE downlinks. Network redundancy and reliability are guaranteed with LACP, G.8032 ERPS (<50ms switch-over time), and 12/24/48 VDC or 220 VAC/VDC 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 Qos
- Wide operating temperature range
- IP40 protection level
- Rugged Din-Rail design
- MTBF>35 Years

Specifications

Interface:

- 1*100Base-FX/1000Base-X SFP based port
- 2*10/100/1000Base-T RJ45 electrical ports

Console Port: 1*RJ45

Dimensions: 135mm(D)× 56mm(W) x105mm(H)

Weight: 0.7Kg

Installation: Din-Rail, wall mountable

Operating temperature: - 40 to 75°C

Storage temperature: -40 to 85°C

Humidity: 5% to 95%, non-condensing

Power supply (input Voltage):

- DC 24V (10-36V)
- DC 48V (20-72V)
- AC/DC 220V (AC: 85-264V DC:170-300V)

Power consumption: <4W

Access Capacity

- MTU: 10K byte
- Switching buffer size: 1Mbit
- Switching capacity 6Gbps

Ethernet

- Up to 8k MAC
- Support 4,094 VLANs
- 1024 static MAC addresses binding

- 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 multicast group and 1024 multicast groups

Traffic Management

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- Service classification per port/VLAN/CoS (DSCP)
- Support 802.1p CoS, DSCP and port priority
- Support SP (Strict Priority), WRR (Weighted Round Robin), 1SP+3WRR, and 2SP+2WRR scheduling modes, and up to 4 queues per port

Security

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

Reliability

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

System Management

- Remote management via Telnet, CLI, Web GUI, SNMP v1/v2c/v3 and SSH v1/v2
- Local management via console interface

- Raisecom NView NMS/EMS
- KeepAlive, RMON, Syslog
- Relay output alarm, Dry contact alarm, and trap alarm management

Standard Compliance

- IEEE 802.1Q (VLAN), 802.1D (STP), 802.1w (RSTP), 802.1s (MSTP), 802.1p (QoS/CoS Priority), 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 S1503i-GF-2GE-AC	L2 Din-Rail manageable industrial switch with 1 x 100Base-FX/1000Base-X SFP ports, 2 x 10/100/1000Base-T RJ45 ports, and AC/DC 220V (AC: 85-264V DC: 170-300V) power supply
Gazelle S1503i-GF-2GE-DCW48	L2 Din-Rail manageable industrial switch with 1 x 100Base-FX/1000Base-X SFP ports, 2 x 10/100/1000Base-T RJ45 ports, and DC 48V (20-72V) power supply
Gazelle S1503i-GF-2GE-DCW24	L2 Din-Rail manageable industrial switch with 1 x 100Base-FX/1000Base-X SFP ports, 2 x 10/100/1000Base-T RJ45 ports, and DC 24V (10-36V) power supply

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