



DIGISOL®

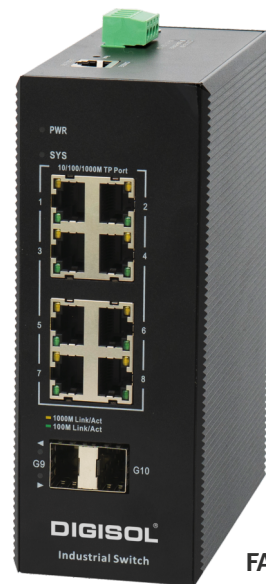
SWITCHING SOLUTIONS

DIGISOL Gigabit L2 Managed Industrial Switch

DG-IS4510HPE

Key Features:-

- Wide-range working temperature
- Advanced Hardware Architecture
- Industry-leading Port Density
- Varied Service Characteristics
- Versatile IPv6 Solution
- Complete Security Mechanism
- IP40 protection 6KV lightning protection



FANLESS DESIGN

Introduction:-

DIGISOL DG-IS4510HPE is based on a new generation of high-performance hardware which supports ACL, QinQ and QoS. DG-IS4510HPE with standard DIN-Rail shell provides wide-voltage dual power input. DG-IS4510HPE uses highly reliable industrial Ethernet ring network technology. The hardware-based algorithm can ensure that the self-healing time of each node is less than 5 milliseconds, and the self-healing time of the ring network is less than 50 milliseconds (typical value). The PoE model conforms to the IEEE 802.3af/at standard, and supports 30W full-load power supply, centralized power supply management, and PoE terminal detection.

The reliable industrial design of DG-IS4510HPE such as electromagnetic compatibility, anti-vibration and anti-shock capability, and IP40 protection can be widely used in energy, transportation, industrial production, environmental protection, military industries.

Product Features:-

- Lightning protection level: 6KV
- IP40 protection, industrial fan-less thermal conduction
- DIN-rail aluminum alloy shell, which is compact and convenient
- Conforms to IEEE802.3af/at standard, maximum 30W PoE power of single port
- Intelligent standard 48V PoE power supply and self-negotiation power supply according to terminal type
- Supports STP/EAPS/ERPS
- Supports node self-healing time less than 5 milliseconds and ring network self-healing time of less than 50 milliseconds (typical value)
- Supports forming a self-healing ring network between any two ports, and supports multiple Independent self-healing rings
- Provides a data packet loss protection mechanism for quickly recovering from failures
- Independent self-healing rings
- Provides hierarchical bandwidth services through rate limiting and traffic shaping in the layer-2 QoS function
- Supports Simple Network Management Protocol (SNMP) and Cloud-based Operating Platform (COP)



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Technical Specifications:-

| Model Number | DG-IS4510HPE |
|----------------------------------------|---------------------------------------|
| Interface | 8 GE PoE ports, 2 100/1000M SFP ports |
| Console | 1 RJ45 port |
| Switching capacity | 20 Gbps |
| Forwarding Rate | 15 Mpps |
| Dimensions | 165x130x65 |
| Weight (when empty) | 1.1 Kg |
| Package dimension (WxDxH)mm | 242*207*86 |
| Package weight | 1.6 Kg |
| Power consumption (No Load) | < 12W |
| Power consumption (full-load with PoE) | 260W |
| Total Output (1000BTU/H=293W) | 887.37 |
| MTBF | <977995.11 hours |
| PoE power budget | 240W |
| Forwarding mode | Store-forward |
| Flash Memory | 16 MB |
| DRAM | 128 MB |
| MAC | 8K |
| Buffer size | 4 MB |
| Jumbo frame | 9K |
| Power input | Dual DC 48~55V |
| Total Svi | 10 |
| Operating temperature | -40~85°C |



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Features:-

VLAN

- Guest VLAN
- 4K VLAN entries
- GVRP
- QinQ

Ring Protection

- 802.1D (STP), 2802.1W (RSTP), 802.1S (MSTP)
- BPDU protection, root protection and ring protection
- EAPS
- ERPS

Multicast

- MVR
- IGMP snooping v1/v2
- IGMP Fast Leave
- Multicast group policy and multicast number limit
- 2K Multicast route table

IP routing

- Default Gateway

DHCP

- DHCP client
- DHCP relay
- DHCP snooping

QoS

- Car traffic control
- 802.1P / DSCP priority remark

- Multiple queuing algorithms such as SP, WRR or SP+ WRR
- IP ACL/ANY/VLAN/COS/DSCP/ IP Preference based QoS
- Traffic supervision and traffic shaping
- Drop, redirect

Security Features

- Identification and filtering of L2/L3/L4-based ACL
- Suppression of broadcast multicast and unknown unicast packet
- Port isolation
- MAC filtering
- Port security, IP+MAC+port binding
- DHCP snooping, DHCP option82
- IEEE 802.1x authentication - port / MAC based
- RADIUS And TACACS authentication
- Command line hierarchical protection
- MAC aging
- DAD

Reliability

- Static/LACP
- Ethernet OAM
- ISSU
- Backuplink
- Flow control

Management and maintenance

- Console, Telnet, SSH 2.0
- Zero Touch Provisioning (ZTP)
- Browser-based WEB management
- SSL
- Traceroute
- Simple Network Time Protocol (SNTP/NTP)
- Syslog
- DNS client
- SNMP v1/v2/v3
- Upload and download files through TFTP
- Remote Network Monitoring (RMON)
- RMultilevel security on console

IPv6

- ICMPv6, DHCPv6, ACLv6, Ipv6
- Telnet
- IPv6 Neighbor Discovery
- Path MTU Discovery
- MLD Snooping

ACL

- L2/L3/L4 ACL
- IPv4, IPv6 ACL
- VLAN ACL

Environment

- Humidity: 10% to 90% RH, non-condensing

Ordering Information:-

DG-IS4510HPE: DIGISOL Managed Industrial Switch with 2 Gigabit SFP Ports and 8 Gigabit PoE Ports, PoE: 240W

**Power Adapter not included with the package.

*Warranty shall be subject to terms and conditions specified in the DIGISOL PRODUCT WARRANTY displayed on the website of the company.

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DIGISOL is a Subsidiary of Smartlink Holdings Limited

DIGISOL SYSTEMS LIMITED
CITIPOINT, 7th Floor,
Unit No. B-701, B-702 & B-703,
Andheri-Kurla Road, J. B. Nagar,
Andheri (East),
Mumbai - 400059, INDIA



1800-209-3444



www.digisol.com



helpdesk@digisol.com

@DIGISOLINDIA