



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



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)



DIGISOL® _____

SWITCHING SOLUTIONS

DIGISOL Gigabit L2 Managed Industrial Switch

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



DIGISOL®

SWITCHING SOLUTIONS

DIGISOL Gigabit L2 Managed Industrial Switch

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: 5% 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.

DIGISOL Logos are trademarks and/or registered trademarks of DIGISOL SYSTEMS LIMITED. Other trademarks, product, service and company names mentioned are the property of their respective owners. Information is subject to change without notice. The actual product appearance may differ from the one shown here. © 2023 DIGISOL SYSTEMS LIMITED. All rights reserved.

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