



DIGISOL®

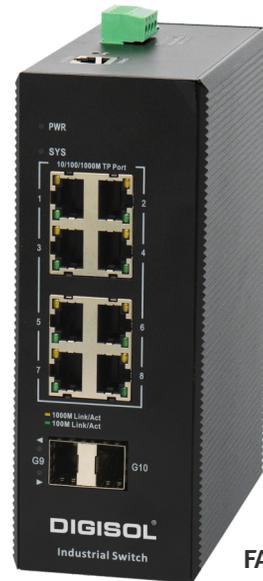
SWITCHING SOLUTIONS

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:-

- | | | |
|---|---|--|
| <p>VLAN</p> <ul style="list-style-type: none">• Guest VLAN• 4KVLAN entries• GVRP• QinQ <p>Ring Protection</p> <ul style="list-style-type: none">• 802.1D (STP), 2802.1W (RSTP), 802.1S (MSTP)• BPDU protection, root protection and ring protection• EAPS• ERPS <p>Multicast</p> <ul style="list-style-type: none">• MVR• IGMP snooping v1/v2• IGMP Fast Leave• Multicast group policy and multicast number limit• 2K Multicast route table <p>IP routing</p> <ul style="list-style-type: none">• Default Gateway <p>DHCP</p> <ul style="list-style-type: none">• DHCP client• DHCP relay• DHCP snooping <p>QoS</p> <ul style="list-style-type: none">• Car traffic control• 802.1P / DSCP priority remark | <ul style="list-style-type: none">• 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 <p>Security Features</p> <ul style="list-style-type: none">• 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 <p>Reliability</p> <ul style="list-style-type: none">• Static/LACP• Ethernet OAM• ISSU• Backuplink• Flow control | <p>Management and maintenance</p> <ul style="list-style-type: none">• 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 <p>IPv6</p> <ul style="list-style-type: none">• ICMPv6, DHCPv6, ACLv6, Ipv6• Telnet• IPv6 Neighbor Discovery• Path MTU Discovery• MLD Snooping <p>ACL</p> <ul style="list-style-type: none">• L2/L3/L4 ACL• IPv4, IPv6 ACL• VLAN ACL <p>Environment</p> <ul style="list-style-type: none">• Humidity: 10% to 90% RH, non-condensing |
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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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