



DIGISOL®

SWITCHING SOLUTIONS

DIGISOL Gigabit L2 Managed Industrial Switch

DG-IS4506HPE

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-IS4506HPE is based on a new generation of high-performance hardware and BDROS platform of DIGISOL's independent intellectual property rights, supports ACL, QinQ, QoS and static routing. DG-IS4506HPE with standard DIN-Rail shell provides wide-voltage dual power input. DG-IS4506HPE 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-IS4506HPE 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-IS4506HPE |
|--|---------------------------------------|
| Interface | 4 GE PoE ports, 2 100/1000M SFP ports |
| Console | 1 RJ45 port |
| Switching capacity | 12 Gbps |
| Forwarding Rate | 9 Mpps |
| Dimensions | 146x108x40 |
| Weight (when empty) | 0.8 Kg |
| Package dimension (WxDxH)mm | 176*130*55 |
| Package weight | 1.3 Kg |
| Power consumption (No Load) | < 12W |
| Power consumption (full-load with PoE) | 140W |
| Total Output (1000BTU/H=293W) | 477.82 |
| MTBF | <1174398.12 hours |
| PoE power budget | 120W |
| 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

- 4K VLAN entries
- GVRP
- QinQ
- Private VLAN

Ring Protection

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

Multicast

- MVR
- IGMP snooping
- IGMP Fast Leave
- Multicast group policy and multicast number limit

IP routing

- Default Gateway

DHCP

- DHCP client
- 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
- Port security, IP+MAC+port binding
- DHCP snooping, DHCP option82
- IEEE 802.1x authentication
- Radius and BDTacacs authentication
- Command line hierarchical protection

Reliability

- Static/LACP
- Ethernet OAM
- ISSU
- Backuplink

Ordering Information:-

DG-IS4506HPE: DIGISOL Managed Industrial Switch with 2 Gigabit SFP Ports and 4 Gigabit PoE Ports, PoE: 120W

**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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