



**DIGISOL®**

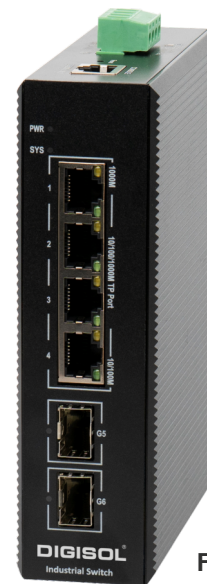
**SWITCHING SOLUTIONS**

## DIGISOL Gigabit L2 Managed Industrial Switch

### DG-IS4506E

#### 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-IS4506E is based on a new generation of high-performance hardware and supports ACL, QinQ and QoS. DG-IS4506E with standard DIN-Rail shell provides wide-voltage dual power input. DG-IS4506E 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 reliable industrial design of DG-IS4506E such as electromagnetic compatibility, anti-vibration and anti-shock capability, and IP40 protection can be widely used in energy, transportation, industrial production, environmental protection and 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
- 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
- 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-IS4506E
Interface	4 GE TX ports, 2 100/1000M SFP ports
Console	1 RJ45 port
Switching capacity	12 Gbps
Forwarding Rate	9 Mpps
Dimensions (W x D x H) mm	145 x 108 x 40
Weight (when empty)	0.78 Kg
Package dimension (W x D x H) mm	175 x 130 x 55
Package weight	1.3 Kg
Power consumption (No Load)	< 12W
Power consumption (full-load)	18W
Power Supply	Dual DC 12~55V
Total Output (1000BTU/H=293W)	61.43
MTBF (H)	>800,000
Forwarding mode	Store-forward
Flash Memory	16 MB
DRAM	128 MB
MAC	8K
Buffer size	4 MB
Jumbo frame	9K
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
- Back-up link

#### Management and maintenance

- Console, Telnet, SSH 2.0
- Zero Touch Provisioning (ZTP)
- Browser-based WEB management
- SNMP v1/v2/v3
- Upload and download files through TFTP
- Remote Network Monitoring (RMON)

#### IPv6

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

#### ACL

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

### Ordering Information:-

#### DG-IS4506E: DIGISOL Managed Industrial Switch with 2 Gigabit SFP Ports and 4 Gigabit TX Ports

\*\*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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