DIGISOL 8 PoE Port L2+ 10G Access Switch

DG-GS4612HPE-X

5 YEARS WARRANTY

Key Features:-

- 10G Uplink Access Switch
- 8 x 10/100/1000Base-T PoE + 4 x 10GE (SFP+)
  Forwarding type: Store and forward
- Fan less design, Energy Efficient with Energy saving feature
- Advanced Security features including RADIUS & TACACS+
  Authentication
- Supports Ethernet Ring Protection Switching (ERPS)
- Supports MVR (Multicast VLAN Register)

Introduction:-

DIGISOL DG-GS4612HPE-X switch is a Layer 2 Gigabit intelligent switch. It supports comprehensive QoS, enhanced VLAN functions (VLAN, Voice VLAN, QinQ, N: 1 VLAN Translation etc), Ethernet Ring Protection Protocol (G.8032), classified bandwidth control, intelligent security control, OAM (Operations, Administration and Maintenance), manageability functions and Triple-Play services. DG-GS4612HPE-X switch also offers green features like Fan-less design feature, which can dramatically lower power consumption. This switch is equipped with GE POE ports and 4 SFP+ uplink ports, it integrates advanced management and security functions to provide performance and scalability.

Key Features and Benefits:-

- **10G Uplink Access Switch**
  Equipped with the full GE ports and 4 SFP+ uplink ports, DG-GS4612HPE-X provides a solid foundation and more than enough bandwidth for your business applications today and in the future.

- **L3 Forwarding**
  DG-GS4612HPE-X supports L3 forwarding allowing you to segment your network into workgroups and communicate across VLANs without degrading application performance.

- **Enhanced Security**
  IEEE 802.1X port-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server. Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets and forward by different policies. User-defined ACL provides more flexible access control for users. DG-GS4612HPE-X supports DHCP snooping, which prevents DHCP attacks from an illegal DHCP SERVER by setting trust ports and untrust ports. With DHCP Snooping binding and option82 enabled, it can combine modules like dot1x and ARP or implement user-access-control independently.
  DG-GS4612HPE-X supports abundant L2 security features such as ARP guard, Anti-ARP scanning, and other ARP and MAC Security technology to protect network security and reliability.

- **High Reliability**
  DG-GS4612HPE-X supports 4 10G uplink ports, which could be designed to offer redundant uplinks with various ring protection applications, effectively raised the expansibility and performance of the network. G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in a ring topology. DG-GS4612HPE-X supports G.8032 v2 and can be deployed in a variety of complex network topologies including single ring, tangent ring, intersecting rings, double rings, and other home networking.

- **Abundant Multicast Features**
  DG-GS4612HPE-X also supports MVR (Multicast VLAN Register), selectively allows traffic to cross between different VLANs for bandwidth and security reasons. With the MVR Trunk function, which could associate multicast VLAN to trunk port, DG-GS4612HPE-X combines the VLAN data into the same link, saving lots of resources for users. DG-GS4612HPE-X could prevent multicast traffic from flooding via IGMP Snooping, while multicast traffic is only forwarded to ports associated with multicast devices

Technical Specifications:-

HARDWARE FEATURES

Ports :
- 8 x 10/100/1000Base-T PoE + 4 x 10GE(SFP+), Auto-MDIX

Management port :
- 1x Console port
- 1x USB2.0 interface

Performance :
- Switching Capacity : 96Gbps
- Forwarding Rate : 71.4Mpps
- MAC address : 16K
- Jumbo Frame : 10K
- Packet buffer: 12MBits
- ACL Table : 512
- Queues Per Port : 8
- VLAN Table : 4K

Physical :
- Dimension (W×H×D) : 330mm x 44mm x 219mm
- Power Input : 100~240VAC, 50~60Hz
- Power Consumption: <150W
- PoE Budget: 125W
- Working Temperature : 0°C~50°C
- Storage Temperature : -40°C~70°C
- Relative Humidity : 5%~95%, non-condensing

MAIN FEATURES

VLAN :
- Port-based VLAN
- IEEE802.1Q
- Private VLAN
- Protocol VLAN
- Voice VLAN
- MAC VLAN
- Q-in-Q, Selective QinQ, Flexible QinQ
- VLAN Translation, N:1 VLAN Translation

L3 Features :
- Static Routing, PBR

DHCP :
- IPv4/ IPv6 DHCP Client
- IPv4/ IPv6 DHCP Relay Option 82, Option 37/38
- IPv4/ IPv6 DHCP Snooping
- IPv4/ IPv6 DHCP Server

Reliability :
SPANNING TREE PROTOCOL
- 802.1D Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree
- Root Guard
- BPDU Guard
- BPDU Forwarding
- TCN filtering

LACP :
- 64 groups / 8 ports

L2 Ring Protection
- MRPP
- ERPS (G.8032)
- Loopback Detection
- Fast Link

Security Features :
- IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL
- Time Range ACL
- ACL rule can be configured on port, VLAN interface
- Storm Control based on packets
- Port Security, MAC Limit based onVLAN and Port
- Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding
- ND Snooping
- Dynamic ARP Inspection (DAI)
- IEEE 802.1x
- Authentication, Authorization, Accounting
- Radius & TACACS+

Multicast :
- IGMP Snooping (V1,v2,v3)
- IGMP Proxy, IGMP v3
- MLD v1/ v2 Snooping

Qos Features :
- 8 Queue Per Port
- Bandwidth Control
- Flow Redirect
- Classification based on ACL (Access Control List), VLAN ID, COS, TOS, DSCP
- Policy Based on Port & VLAN,
- Single rate single barrel double color for policing
- SP+ SDWRR, DWRR, SP DWRR for Scheduling
- Match the IP fragmentation of message

Maintenance and Operation Management :
- TFTP/FTP
- CLI, Telnet, Console
- Web/SSL (IPv4/IPv6)
- SSH (IPv4/IPv6)
- SNMPv1/v2c/v3
- SNMP Trap
- Public & Private MIB interface
- RMON 1,2,3,9
- Ping, Trace Route
- Radius Authentication
- Syslog (IPv4/IPv6)
- SNTP/NTP (IPv4/IPv6)
- Dual IMG, Multiple Configuration Files
- Port Mirror, RSPAN, sFlow
- VCT, DDM
- OAM
- ULDP (Like Cisco UDLD)
- LLDP/LLDP MED

Green Energy :
- FAN less

Ordering Information:-

DG-GS4612HPE-X : DIGISOL L2+ Full Gigabit Access Switch with 8* 10/100/1000Base-T PoE and 4* 10GE(SFP+) ports, static routing, 1 fixed AC power, PoE output up to 125w

*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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Rear View :