

DIGISOL 10GE L3 Switch with 100G QSFP28 Uplinks

DG-GS2926FSE-B2



Key Features:-

- 24*1/10G SFP+ and 2*40/100G QSFP28 slots
- Supports VSS stacking
- Standard 19-inch rack-mount
- Dual Redundant AC power supplies (HotSwap)
- Supports ERPS ring technology
- 1+3 redundant fans



Introduction:-

DIGISOL's DG-GS2926FSE-B2 is a next generation aggregation 10GE switch. It is targeted at medium to large networks like government and enterprise networks, Internet cafe and other networking environment. It is developed on the basis of high-performance hardware and software platform.

The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP related SYN flood, UDP flood, broadcast storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions. Supports perfect security authentication mechanisms: IEEE 802.1x, Radius and TACACS+. Supports storm/multicast/unicast limit to ensure the normal running of equipment in harsh network conditions. Supports a perfect ring detection mechanism to ensure the long-term stable running of network. Supports port isolation within the same VLAN, DHCP-Snooping, and IP plus MAC plus Port binding for ensuring user data security.

Rich Data Center Services

VSS (Virtual Switch System) which can virtualize multiple physical devices into a single logical element. The virtualized system is superior to the independent physical device in performance, reliability, flexibility and management.

Doubled Performance: The virtualized system makes the best use of each link in the device and avoids blocking of STP to the links.

High-reliability: Based on the advanced distributed processing technique and the efficient function of cross-physical device link aggregation, the DG-GS2926FSE-B2 provides non-stop layer-3 routing forwarding and avoids single points of failure.

Flexibility: The virtual cluster function of the DG-GS2926FSE-B2 allows the distance of a cluster system to expand over up to 80KM, breaking the geographic restrictions of traditional cluster techniques. Easy Management: The whole virtual system realizes single IP unified management and simplifies the management of network devices and network topology.

Security+

Equipment-level security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions.

Perfect security authentication mechanisms: IEEE 802.1x, Radius and TACACS+. DG-GS2926FSE-B2 supports storm/multicast/unicast limits, ensuring normal running conditions of the equipment when deployed in harsh network conditions. DG-GS2926FSE-B2 supports perfect ring detection mechanisms, ensuring long-term network performance stability. DG-GS2926FSE-B2 supports port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding.

High-reliability

DG-GS2926FSE-B2 Series adopts HPS (Hitless Protection System). The key components of DG-GS2926FSE-B2 such as the power system and the fan system supports redundancy in design. All system modules support hot-swap and seamless switching without needof manual intervention. DG-GS2926FSE-B2 supports redundancy protection mechanisms such as STP/RSTP/MSTP protocol, VRRP protocol, ring network protection, dual uplink active/standby link protection and LACP link Aggregation. DG-GS2926FSE-B2 supports ISSU (In-Service Software Upgrade), guaranteeing non-stop forwarding of service data while the system is upgrading. DG-GS2926FSE-B2 supports BFD and realizes fault detection and service recovery in seconds through linking with layer-2 or layer-3 protocol. DG-GS2926FSE-B2 has perfect Ethernet OAM, 802.3ah and 802.1ag which can monitor the network operating state in real time and rapidly detect and locate the malfunction. High Reliability (99.999%): The MTTR of the DG-GS2926FSE-B2 Series is 50ms, satisfying the requirement for reliable delivery of carrier-level service.

Technical Specifications:-

MAIN FEATURES:

Item	DG-GS2926FSE-B2
Interface	24*10G SFP+ ports
	2*40/100G QSFP28
	Console 1 RJ45 port
	1 Management port
Backplane	880Gbps
Forwarding rate (Mpps with 64 bytes)	660Mpps
Flash (MB)	4096
DRAM (MB)	2024
Jumbo frame	9K
MAC	128K
Buffer size (MB)	1.5
Interface VLAN	1K
Routing table (IPv4/IPv6)	16K/8K
ARP table (IPv4/IPv6)	16K/8K
Chassis - Dimensions (WxDxH)(mm)	440x300x44
Chassis - weight (kg) (empty)	6.1
Package Dimensions (WxDxH)(mm)	576x448x94
Package - weight (kg)	7.1
Power consumption (no load)	45W
Power consumption (Full load)	70W
Power supply	AC 100-240V (Dual hot/swap)
Fan	4
Total output BTU (1000BTU/H=293W)	238.91
Noise@25°C (dBA)	57
MTBF(H)	>200,000

Technical Specifications:-

Item	DG-GS2926FSE-B2
VLAN	4K Active VLAN
	QinQ & Selective QinQ
	GVRP, Private VLAN
Spanning Tree	802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP)
	BPDU guard, Root guard and Loopback guard
Multicast	PIM-SM, PIM-DM, IGMP v1/v2/v3
	IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter
IP	Static route
	RIP v1/v2, OSPF, BGP, PBR, ECMP
	BFD for OSPF, BGP
IPv6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet
	IPv6 neighbor discovery
	Path MTU discovery
	MLD V1/V2, MLD snooping
	IPv6 Static Routing
	RIPng, OSPFv3, BGP4+
	Manual tunnel
	ISATAP tunnel 6 to 4 tunnel
QoS	CAR, HQoS
	MAC/IP/TCP/UDP/VLAN/COS/DSCP/TOS based QoS
	802.1P/ DSCP priority re-labeling
	SP, WRR, and SP+WRR
	Tail-Drop
	WRED
Security	flow monitoring and traffic shaping
	Port isolation
	Port security and IP+MAC+port binding
	MAC sticky
	DAI & IP source guard (IPv4), PPPoE+
	IEEE 802.1x, AAA Radius and TACACS+
	L2/L3/L4 ACL flow identification and filtration
	Anti-attack from DDoS
	TCP's SYN Flood, UDP Flood, etc.
	Broadcast/multicast/unknown unicast storm-control
DHCP	MD5, SHA-256, RSA-1024, AES256, etc.
	DHCP server/relay/client
	DHCP snooping/option82
Reliability	Static/LACP link aggregation, Interface backup
	EAPS and ERPS
	ISSU Uninterrupted system upgrade
	Upto 4 Units per stack
	VRRP, UDLD
	1+1 Power Backup

Technical Specifications:-

Item	DG-GS2926FSE-B2
Management	Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON
	TFTP, FTP, SFTP
	NTP, ZTP, SPAN, RSPAN
	syslog
Accessories	Power cord
	Rack mounting kits
	Console cable
Environment	Operating temperature: 0°C -50°C
	Operating humidity: 10%-90% non-condensing
	Storage temperature: -20°C to -70°C
	Storage humidity: 5%-95% non-condensing

Rear View :



Ordering Information:-

DG-GS2926FSE-B2 : DIGISOL 24-Port 10G SFP+ 2*100G QSFP28 Ports L3 Managed Switch with Dual hot-swap power slots.

*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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