DIGISOL®

SWITCHING SOLUTIONS

INDIA'S OWN IT NETWORKING CHOICE

DIGISOL 100G Datacenter Switch

DG-CS4556FQ28

5 YEARS WARRANTY



Key Features:-

- 48 x 10G SFP+ + 8 x 100G QSFP28
- Modular AC (1+1 Redundant, Standard with 2 ACs)
- Forwarding Performance: 1905Mpps
- Switching Capacity: 2.56Tbps
- RADIUS & TACACS+ Authentication
- Ethernet Ring Protection Switching (ERPS)
- VXLAN, VSF, EVPN and NETCONF
- IPv6 Versatile Protocols
- 1U Rack Mount

Introduction:-

DG-CS4556FQ28 data center 100G switch uses advanced hardware and software architecture design. DG-CS4556FQ28 is ideal for data center TOR or spine switches of datacenter. For campus or other large network, DG-CS4556FQ28 could also be deployed at aggregation or core layer as its high performance and reliability.

High Performance and scalability

With high switching capacity, DG-CS4556FQ28 supports wire-speed L2/L3 forwarding and high routing performance for IPv4 and IPv6 protocols. The 10G Ethernet connectivity of DG-CS4556FQ28 is accomplished via a hot-pluggable 10G SFP+ Transceivers.

High Reliability

DG-CS4556FQ28 support modular 1+1 redundant power supplies and 5+1 redundant fans. Business won't be interrupted in case replacing power supplies and fans. System supports dual images. Even though the primary image was destroyed, system will still boot via backup image normally.

VSF (Virtual Switch Framework)

As new generation data center switch, DG-CS4556FQ28 support VSF which not only guarantees the flexibility, but also enhanced the scalability of datacenter network.

Flex Resource

Flex Resource is able to allocate, recover and reallocate hardware resource dynamically according to demand. It can increase the utilization of the hardware resource.

Rich L3 Features

DG-CS4556FQ28 delivers high-performance, hardware-based IP routing. RIP, OSPF and BGP provide dynamic routing by exchanging routing information with other Layer 3 switches and routers. With DG-CS4556FQ28, customers could easily achieve Policy based Route (PBR), which is important when they need multi exit application.

MPLS/VPLS

DG-CS4556FQ28 supports MPLS L3 VPN/MPLS L2. VPN(VPLS) and helps customer to construct more secure/extendable network. With max 1023 VRF instances, DG-CS4556FQ28 series could be deployed as P & PE devices, guarantees the variety of services.

Abundant IPv6 Support

DG-CS4556FQ28 supports IPv6 switching and routing based on hardware for maximum performance. With increased network devices growing and the need for larger addressing and higher security becomes critical, DG-CS4556FQ28 will be a right product to meet the requirement. DG-CS4556FQ28 passed IPv6 form Phase II certification, which is the best proof of the application.

Rich Data Center Features

The DG-CS4556FQ28 series switches support a wide range of data center features, such as VxLAN, virtualized VSF, ROCE (PFC&ECN), Netconf, Telemetry, and more.

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Technical Specifications:-

Item	DG-CS4556FQ28
Physical Port	48 x 10G SFP+ + 8 x 100G QSFP28
Management Port	Console port RJ45,100/1000Mbps RJ45 Ethernet Management port
	USB2.0 Management port
Performance	
Switching Capacity	2.56Tbps
Forwarding Rate	1905Mpps
RAM	8G
FLASH	64G SSD
MAC Address	128k(standard)/96k(routee)/256k(bridgee)/224k(legacy), Standard mode by default
ARP Table	48k(standard)/48k(routee)/48k(bridgee)/48k(legacy), Default with standard mode
Routing Table	64k(standard)/128k(routee)/16k(bridgee)/32k(legacy), Default with standard mode
Physical	
Dimension(W*H*D)	442mm*44mm*510mm
Relative Humidity	5%~95% non-condensing
Temperature	Working 0°C~50°C
Power Input	AC: 100~240V, 50~60 Hz
Power Supply	1+1 Modular Redundant AC
Power consumption	<350W
Main Features:	
L1, L2 Features	9K Jumbo Frame
	Port Loopback Detect
	LLDP and LLDP-MED
	UDLD
	802.3ad LACP, 16 groups
	LACP Load Balance
	N:1 Port Mirroring
	RSPAN, ERSPAN
	IEEEE802.1d(STP), IEEEE802.1w(RSTP), IEEEE802.1s(MSTP)
	Root Guard, BPDU Guard, BPDU Tunnel
	ERPS(ITU-T G.8032)
	802.1Q, 4096 VLAN
	MAC VLAN, VOICE VLAN, Private VLAN, Protocol VLAN, Multicast VLAN
	QinQ, Selective QinQ, Flexible QinQ
	GVRP
	N:1 VLAN Translation
	Broadcast / Multicast / Unicast Storm Control
	IGMP v1/v2/v3 Snooping and L2 Query
	ND Snooping
	MLDv1/v2 Snooping
	Port Security
	Flow control: HOL, IEEE802.3x
	Bandwidth Control

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Technical Specifications:-

Item	DG-CS4556FQ28
L3 Features	Static Routing, RIPv1/v2, OSPFv2, IS-ISv4, BGP4
	OSPFv3, IS-ISv6, BGP4+
	OSPF Multiple Process
	LPM Routing
	Policy-based Routing (PBR) for IPv4 and IPv6
	VRRP, URPF, ECMP, BFD
	IGMP v1/v2/v3, IGMP Proxy
	DVMRP, PIM-DM, PIM-SM, PIM-SSM, any cast RP, MSDP
	Static Multicast Route
	Multicast Receive Control
	Illegal Multicast Source Detection
	ARP Guard, Local ARP Proxy, Proxy ARP, ARP Binding, Gratuitous ARP, ARP Limit
	Anti ARP Cheat, Anti ARP Scan
	DNS Client, GRE Tunnel
IPv6	6to4 Tunnel, Configured Tunnel, ISATAP Tunnel, GRE Tunnel
	ICMPv6, ND, DNSv6
	IPv6 LPM Routing, IPv6 Policy-Based Routing (PBR)
	IPv6 VRRPv3, IPv6 URPF, IPv6 RA
	RIPng, OSPFv3, IS-ISv6, BGP4+
	MLD Snooping, IPv6 multicast VLAN
	MLDv1/v2, PIM-SM/DM for IPv6, IPv6 Anycast RP, IPv6 ACL, IPv6 QOS
QoS	8 Queues
	SWRR, SP, WRR, DWRR, SDWRR, WRED
	Traffic Classification Based on 802.1p CoS, ToS, DiffServ DSCP, ACL, port number
	Traffic Shaping
	PRI Mark/Remark
ACL	IP ACL, MAC ACL, IP-MAC ACL
	Standard and Expanded ACL Based on source/destination IP or MAC, IP protocol
	TCP/UDP port, DSCP, ToS, IP Precedence, VLAN, Tag/Untag, CoS
	REDIRECT and accounting-based ACL
	Rules can be configured to port, VLAN
	Time ranged ACL
Security	802.1x AAA
	Port, MAC based authentication
	Accounting based on time length and traffic
	Guest VLAN and Auto VLAN
	RADIUS for IPv4 and IPv6
	TACACS+ for IPv4 and IPv6
	MAB
DHCPv4/v6	DHCP Server/Client for IPv4/IPv6
	DHCP Relay/Option 82
	DHCP Snooping/Option 82

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Item	DG-CS4556FQ28
Traffic Monitor	sFlow Traffic Analysis
Security Network Management	CLI, WEB, Telnet, SNMPv1/v2c/v3 through IPv4 and IPv6
	Syslog and external Syslog server
	HTTP SSL
	SNMP MIB, SNMP TRAP
	FTP/TFTP
	SNTP/NTP
	RMON 1,2,3,9
	Authentication by radius
	SSH v1/v2
	Dual firmware images/ Configuration files
	802.3ah OAM, 802.1ag OAM
Data Center Features	VXLAN / EVPN
	MLAG
	Telemetry
	Netconf
	PFC & ECN
	VSF (Virtual Switch Framework, support mixed stacking among models)

Rear View



Ordering Information:-

DG-CS4556FQ28: DIGISOL 100G Datacenter Switch with 48*1/10G SFP+ and 8*40/100G QSFP28 ports, includes default 1+1 hot-swap AC power supply and 4+1 fans.

*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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