

# DG-GS4628FSE AND DG-CS4616F Lite

## Layer 3 Managed Switches



### ■ Overview

DG-GS4628FSE and DG-CS4616F are L3 Gigabits intelligent switches designed for carrier and MAN networks. They supports comprehensive QoS, enhanced VLAN functions (VLAN VPN, 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 which fulfill the network requirements demanded by carrier network, MAN access. Both DG-GS4628FSE and DG-CS4616F Series switches offers green features like IEEE 802.3az (Energy Efficient Ethernet), Fan-less design and Smart Fan feature, which can dramatically lower power consumption, achieve green energy and save the cost for the carrier and MAN users..

### Specifications

#### ✚ DG-CS4616F

Item	DG-CS4616F
Management Port	1 Console port
Ports	16 x 10GbE(SFP+)
Performance	
Switching Capacity	320G
Forwarding Rate	238Mpps



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Item	DG-CS4616F
MAC ADDRESS	16K
Jumbo Frame	9K
ACL Table	1k
Route Table IPv4 / IPv6 shared	64 / 64
Queues per port	8
VLAN TABLE	4K
Physical	
Dimension(WxHxD)	440mm x 44mm x 240mm
weight	3.1kg±0.1kg
Power Input	AC: 100~240VAC, 50~60Hz DC: Input -48V ~ -60V
Power Consumption	23.7W
Temperature	Working 0°C~50°C, Storage -40°C~70°C
Relative Humidity	5%~95%,non-condensing
EMC safety	CE, RoHS
<b>Main Features</b>	
Forwarding	Storage and Forwarding
VLAN	Port-based VLAN IEEE802.1Q private VLAN Protocol VLAN Voice VLAN MAC VLAN Normal QinQ, Selective QinQ, Flexible QinQ VLAN Translation, N:1 VLAN Translation
DHCP	IPv4/IPv6 DHCP Client,IPv4/IPv6 DHCP Relay Option 82,Option 37/38 IPv4/IPv6 DHCP Snooping,IPv4/IPv6 DHCP Server

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All specifications are subject to change without further notice. All features with \* mark will be available by firmware upgrade.



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Item		DG-CS4616F
IP Routing		IP Routing and Static Route, RIP
Reliability	Spanning Tree	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard, BPDU Guard, BPDU Forwarding Multi-Process MSTP
	LACP	128 groups per device/8 ports per group Load balance
	L2 Ring Protection	MRPP ITU-T G.8032 Loopback Detection Fast Link
	Multi-link Backup	Enhanced Multi-VLAN subnet Traffic Engineering (ULPP+ULSM)
	VSF	Virtual Switch Framework
Security		IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL Time Range ACL ACL on VLAN interface Storm Control based on packets and bytes Port Security, MAC Limit based on VLAN and Port Anti-ARP-Spoofing , Anti-ARP-Scan, ARP Binding ND Snooping DAI IEEE 802.1x, Web Portal Authentication, Authorization, Accounting Radius, TACACS+
Multicast		IGMP v1/v2/v3 snooping, IGMP Fast leave MVR MLD v1/v2 snooping IPv4/IPv6 DCSCM(D)
QoS		8 Queues Per Port Bandwidth Control Flow Redirect Classification based on ACL, VLAN ID, COS, TOS, DSCP, IPv6 Flow Label Policing Based on Port and VLAN



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Item	DG-CS4616F
	Single Rate Three Colors, Dual Rates Three Colors for Policing Remark DSCP, COS/802.1p, Precedence, TOS SP, WRR, SWRR, DWRR for Scheduling
Maintenance and Operation Management	XModem/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, CPU Mirror, RSPAN, ERSPAN sFlow OAM EFM; OAM CFM* Dying GASP VCT, DDM ULDP(like Cisco UDLD) LLDP/LLDP MED OpenFlow 1.0, support open controller Opendaylight, Floodlight, Ryu, Pox, etc.
Green Energy	IEEE 802.3az (Energy Efficient Ethernet) Auto Fan Speed Control, Temperature Alarm (S5750E-28P and S5750E-28X has no fans) LED Shut-off

Item	DG-GS4628FSE
Management Port	1 Console port
Ports	20 x 100/1000Base-X (SFP) + 4 x GbE Combo(RJ45/SFP) + 4 x 10GbE (SFP+)
Performance	
Switching Capacity	128Gbps

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Item	DG-GS4628FSE
Forwarding Rate	96Mpps
MAC ADDRESS	16K
Jumbo Frame	9K
ACL Table	1.5k
Route Table IPv4 / IPv6 shared	512 / 512
Queues per port	8
VLAN TABLE	4K
Physical	
Dimension(WxHxD)	443mm x 44mm x 220mm
weight	2.9kg±0.1kg
Power Input	AC: 100~240VAC, 50~60Hz DC: Input -48V ~ -60V
Power Consumption	42W
Temperature	Working 0°C~50°C, Storage -40°C~70°C
Relative Humidity	5%~95%,non-condensing
EMC safety	CE, RoHS
Main Features	
Forwarding	Storage and Forwarding
VLAN	Port-based VLAN IEEE802.1Q private VLAN Protocol VLAN Voice VLAN MAC VLAN Normal QinQ, Selective QinQ, Flexible QinQ VLAN Translation, N:1 VLAN Translation
DHCP	IPv4/IPv6 DHCP Client,IPv4/IPv6 DHCP Relay

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Item		DG-GS4628FSE
		Option 82, Option 37/38 IPv4/IPv6 DHCP Snooping, IPv4/IPv6 DHCP Server
IP Routing		IP Routing and Static Route, RIP
Reliability	Spanning Tree	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard, BPDU Guard, BPDU Forwarding Multi-Process MSTP
	LACP	128 groups per device/8 ports per group Load balance
	L2 Ring Protection	MRPP ITU-T G.8032 Loopback Detection Fast Link
	Multi-link Backup	Enhanced Multi-VLAN subnet Traffic Engineering (ULPP+ULSM)
	VSF	Virtual Switch Framework
Security		IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL Time Range ACL ACL on VLAN interface Storm Control based on packets and bytes Port Security, MAC Limit based on VLAN and Port Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding ND Snooping DAI IEEE 802.1x, Web Portal Authentication, Authorization, Accounting Radius, TACACS+
Multicast		IGMP v1/v2/v3 snooping, IGMP Fast leave MVR MLD v1/v2 snooping IPv4/IPv6 DCSCM(D)
QoS		8 Queues Per Port Bandwidth Control Flow Redirect



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Item	DG-GS4628FSE
	Classification based on ACL, VLAN ID, COS, TOS, DSCP, IPv6 Flow Label Policing Based on Port and VLAN Single Rate Three Colors, Dual Rates Three Colors for Policing Remark DSCP, COS/802.1p, Precedence, TOS SP, WRR, SWRR, DWRR for Scheduling
Maintenance and Operation Management	XModem/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, CPU Mirror, RSPAN, ERSPAN sFlow OAM EFM; OAM CFM* Dying GASP VCT, DDM ULDP(like Cisco UDLD) LLDP/LLDP MED OpenFlow 1.0, support open controller Opendaylight, Floodlight, Ryu, Pox, etc.
Green Energy	IEEE 802.3az (Energy Efficient Ethernet) Auto Fan Speed Control, Temperature Alarm (S5750E-28P and S5750E-28X has no fans) LED Shut-off



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■ **Ordering information**

<b>Product</b>	<b>Description</b>
DG-GS4628FSE	L3 Gigabit Ethernet Switch with 20 100/1000Base-X, 4 GbE Combo(SFP/RJ45) and 4 10GbE (SFP+) ports, 100-240VAC + 48VDC Power Input
DG-CS4616F	L3 Switch with 16 10GbE (SFP+) ports, 100-240VAC + 48VDC Power Input