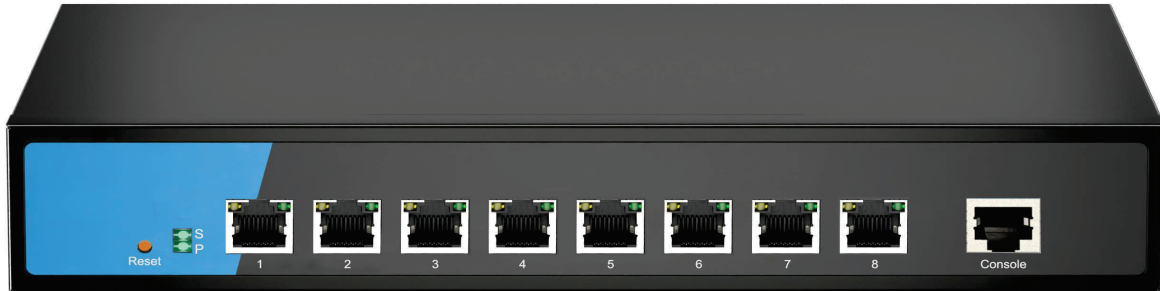# CLR-DCS-6580C
L3 Managed Ethernet Switch

【**Product overview**】

8 port 10G Web Managed Ethernet Switch Adopting high-quality and high-speed network chip solutions, with all 10G RJ45 ports and smoother line speed forwarding, equipped with 8* 10G RJ45 ports, supporting speeds of 1.25G/2.5G/10G,By adopting a storage and forwarding mechanism and integrating high-capacity cache internally, it ensures that all ports can achieve 10 Gigabit non blocking line speed forwarding, adapting to more unexpected situations. Steel shell design, efficient and stable heat dissipation, all steel shell structure, sturdy and durable, high strength, efficient heat dissipation, ensuring stable product operation. This switch can be widely used in areas such as security network video surveillance, hotels, campuses, and network engineering for medium and large enterprises.

【**Main Feature**】

➢ Support 8* 10G RJ45 Port; one console port

➢ Supports IEEE802.3、IEEE802.3u，IEEE802.3x，IEEE802.3ab，IEEE802.3z;

➢ Ethernet ports support 1.25G/2.5G/10G self- adaptive;

➢ Support port Auto MDI/MDIX;

➢ Adopting a storage and forwarding exchange mechanism;

➢ All ports support line speed switching;

➢ Panel indicator lights monitor working status and help failure analysis;

➢ Support QoS data priority;

【Application environment】

➢ Metropolitan area optical fiber broadband network: Telecom, cable TV, network system integration, such as number, according to network operators.

➢ Broadband private network: applicable to financial, government, oil, electric power, public security, education and other industries private network.

➢ Multimedia transmission, image, voice and data integrated transmission, for remote teaching, meeting TV, video phone and other applications.

➢ Real-time monitoring: real-time control signal, image and data transmission.

【Technical Parameter】

I/O Interface	
Power	AC 100-240V / 50-60Hz
Ethernet	8*10G RJ45 Port
Performance	
Bandwidth	160Gbps
Packet forwarding rate	119.04Mpps
Package cache	12Mbit
VLAN	VLAN range 1-4094, maximum active VLAN is 4K
MAC Address Table	16K
Forwarding mode	Store forward
Standard	
Network protocol	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol IEEE 802.3i: 10BASE-T Ethernet IEEE 802.3u: 100BASE-TX Fast Ethernet IEEE 802.3ab: 1000BASE-T Gigabit Ethernet IEEE 802.3z: 1000BASE-X Gigabit Ethernet (Fiber optic) IEEE 802.3x: Flow Control IEEE 802.3az (Efficient and Energy saving Ethernet) IEEE 802.3ae (10 Gigabit Ethernet) IEEE802.3x (Flow Control) IEEE802.3 bz (2.5G/5G Ethernet standard)
Industry standard	EMS: EN61000-4-2 (ESD) EN61000-4-5 (Surge)

Network Medium	10Base-T: Cat3, 4, 5 or above UTP/STP (≤ 100m)
	100Base TX: Cat5 or above UTP/STP (≤ 100m)
	1000Base TX: Cat5 or above UTP/STP (≤ 100m)
	2.5GBase TX: Cat6 class or UTP/STP (s100m)
	10GBase TX: Cat7 or above UTP/STP (100m)
Environmental standard	
Working environment	Operating temperature: 0~40°C
	Storage temperature: -40~70°C
	Operating humidity: 10%~90%, non-condensing
	Storage humidity: 5%~95%, non-condensing
Functional indication	
Indicator	PWR(Power Indicator), SYS(System Indicator)
PWR	On: Powered on
	Off: Powered off
SYS	On: System normal
	Flashing: System startup
2.5G/5G/10G(Green Light)	On: Link connect normal
	Flashing: Data transmitting
	Off: Link off
100/1000M(Yellow Light)	On: Link connect normal
	Flashing: Data transmitting
	Off: Link off
Reset	Long press for 6 seconds to restore factory settings

【Function】

Network Size – length of cable	
Twisted pair (TP):	0-100 m (CAT5e,CAT6)
Single mode Fiber (SMF):	20/40/60/80/100 km
Multimode Fober (MMF):	550 m
Network Topology	
Ring topology	Support
Star topology	Support
Bus topology	Support

Tree Topology	Support
Hybrid topology	Support
Electrical Specifications	
Input voltage	AC 100-240V 50/60Hz
Power consumption:	≤40W
Layer 2 Switching	
Switching capacity	240G
Packet forwarding rate	178.56Mpps
MAC address table	32K
Buffer	16M bit
Forwarding delay	<10us
MDX/MIDX	Support
VLAN	4K
GVRP VLAN	Support
Protocol VLAN	Support
Voice VLAN	Support
Surveillance VLAN	Support
MAC VLAN	Support
Ethert channel/ 802 .3ad	Support
LACP	Support
Interface Speed	Support
Duplex Mode	Support
Flow Control	Support
Jumbo frame	Support
DHCP Client	Support
SNTP Client	Support

Port Statistics	Support
Protected Ports	Support
EEE	Support
Ethernet Ring Protection Switching	Support
LLDP	Support
LLDP 802.1 TLV	Support
MSTP / RSTP / STP	Support
STP BPDU Filter	Support
STP BPDU guard	Support
STP Port Fast	Support
IGMP Snooping	Support
MLD Snooping	Support
MVR	Support
DHCP Server	Support
Layer 3 Route	
IPV4 management	Support
IPV6 management	Support
Dynamic Routing	OSPF, RIP
Static Routes IPv6	Support
ARP	Support
Loopback Interface	Support
Convergence	
ACL	Support MAC Standard/Extended ACL
	Support IPV4 Standard/Extended ACL
	Support IPV6 Standard/Extended ACL

QoS	Support QoS Remarking
	Support Port Trust
	Support Port bandwidth
	Support egress queuing bandwidth
	Support SP，WRR
	Support COS，DSCP，IP Priority
Management	
User Management	Support
System Log	Support
Upgrade Firmware	Support
Configuration File Download/Upload	Support
SNMP	Support SNMP V1/V2/V3
WEB	Support
Console	Support
CLI	Support
Telnet/SSH	Support
RMON	Support
Security	
management channel configuration	Support
AAA	Support
802.1X	Support
MAC-Based	Support
WEB-Based	Support
DoS	Support
ARP	Support

DHCP Snooping	Support
IP Source Guard	Support
Port Security	Support
Protected Ports	Support
Storm control	Support
Equipment diagnosis	
Console log	Support
RMA log Flash log	Support
Port Mirror	1: 1 or 1: M
Ping	Support
Traceroute	Support
Fiber module info	Support
UDLD protocol	Support
Environment	
Operate temperature	-10ºC to 50ºC
Storage temperature	-40ºC to 70ºC
Relative humidity	Working humidity 10% to 90% RH Storage humidity 5% to 90% RH
Heat Dissipation Method	Fan
MTBF	100,000H
Mechanical Dimensions	
EMC & INGRESS PROTECTION	
Surge protection for power	Common mode 6KV; differential mode: 4KV
Surge protection for Ethernet port	Common mode 6KV; differential mode: 4KV
ESD	Air 8K, contact 15K
Free fall	0.5m

Accessories	
Accessories	Device, Power cord, User manual