

CS6200-EI Fiber Series L3+ 10G Routing Switch

Product Overview

DCN CS6200-EI fiber series switches are next-generation 10GbE stackable routing switches that provide fixed gigabit optical access and 10GbE uplink ports. CS6200-EI fiber switch has advanced hardware and software architecture design. These switches provide high availability, scalability, security, energy efficiency, and ease of operation with rich features such as **VSF** (**Virtual Switch Framework**), redundant power supplies. It is ideal for high-density optical aggregation in FTTx solutions or campus networks, enterprise networks and ISP network.

The following models are available in the CS6200-EI fiber series.

Appearance	Description
CS6200-28F-EI-R	 16 x 100/1000Base-X (SFP) + 8 x GbE Combo (SFP/RJ45) + 4 x 10GbE (SFP+) Fixed AC+RPS (12V) Power supply 1 console, 1 USB, 1 RJ45 management port 1 Reset Button Forwarding performance: 95Mpps Switching capacity: 128Gbps
CS6200-52F-EI	 48 x 100/1000Base-X (SFP) + 4 x 10GbE (SFP+) Fixed AC+RPS (12V) Power supply 1 console, 1 USB, 1 RJ45 management port 1 Reset Button Forwarding performance: 131Mpps Switching capacity: 176Gbps



Key Features and Highlights

Easy High-Reliability network

MRPP is a Multi-layer Ring Protection Protocol, which is DCN's private fast Ethernet ring protocol. Comparing to spanning tree protocol, it has the advantages of fast convergence, simple protocol calculation, fewer system resources cost, and so on, which can improve the reliability of Ethernet network operation.

VSF (Virtual Switch Framework)

Virtual Switch Framework can virtualize multiple DCN switches into one logical device, achieving the sharing of information and data tables between different switches. The performance and ports density of the virtualized device is greatly enlarged by times under VSF. VSF also simplifies management work for the network administrator and provides more reliability.

Performance and Scalability

With high switching capacity, the CS6200-EI fiber series support wire-speed L2/L3 forwarding and high routing performance for IPv4 and IPv6 protocols. The 10 Gigabit Ethernet connectivity of CS6200-EI fiber series is accomplished via a hot-pluggable 10 Gigabit SFP+ transceiver which supports distance up to 300 meters over multimode fiber and 10 to 40km over single-mode fiber (The distance depends on the optical module chosen).

Rich L3 Features

CS6200-EI fiber series 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 the CS6200-EI fiber series, customers could easily achieve a Policy-based Route (PBR), which is important when they need a multi exit application.

Strong Multicast

CS6200-EI fiber series supports abundant multicast features. In Layer 2, such as IGMPv1/v2/v3 snooping and fast leave. L3 multicast protocols such as IGMPv1/v2/v3, PIM-DM, PIM-SM, PIM-SSM, and even MSDP. With Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detect functions; the CS6200-EI fiber series provides a great application experience for the customer.

Comprehensive QoS

With 8 queues per port, the CS6200-EI fiber series enable differentiated management of up to 8 traffic types. The traffic is prioritized according to IEEE802.1p, DSCP, IP precedence, and TCP/UDP port number, giving optimal performance to real-time applications such as voice and video.

CS6200-EI fiber series also supports Bi-directional rate-limiting, per port or traffic class preserves network bandwidth, and allows full control of network resources.

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Specifications

Item	CS6200-28F-EI-R	CS6200-52F-EI
Performance		
Switching Capacity	128Gbps	176Gbps
Forwarding Rate	95Mpps	131Mpps
Jumbo Frame	10K	
MAC Address	16K	
ARP Table	4K	
Routing Table	13K	
ACL Table	3K	
L3 Interface	Max 1K	
Physical Physical	IVIMI III	
	440mm x 44mm x 240mm	440mm x 44mm x320mm
Difficusion (V II D)	1 x RJ45 Ethernet Management port	Troilin X Trimi X320mm
Management port	1x Console port	
winingement port	1x USB2.0 interface	
Relative Humidity	10%~90% non-condensing, storage 95%	
Temperature	Working 0°C~50°C, storage -40°C~70°C	
Power Supply	AC: 100~240VAC, 50~60Hz + 12VDC RPS	
Power Consumption	<34W	<80W
Main Features		
L1, L2 Features	IEEE802.3(10Base-T), IEEE802.3u(100Base-TX), IEEE802.3z(1000BASE-X), IEEE802.3ab(1000Base-T), IEEE802.3ae(10GBase), IEEE802.3x, IEEE802.3ak(10GBASE-CX4), Auto MDI/MDIX Port loopback detection LLDP and LLDP-MED UDLD 802.3ad LACP, max 128 group trunks with max 8 ports for each trunk LACP load balance N:1 Port Mirroring RSPAN IEEEE802.1d(STP) , IEEEE802.1w(RSTP) , IEEEE802.1s(MSTP) Root Guard BPDU Guard BPDU Tunnel 802.1Q, 4K VLAN MAC VLAN, Voice VLAN, PVLAN, Protocol VLAN, Multicast VLAN QinQ, Flexible QinQ GVRP N:1 VLAN Translation Broadcast / Multicast / Unicast Storm Control IGMP v1/v2/v3 Snooping and L2 Query , IGMP Proxy ND Snooping MLDv1/v2 Snooping Port Security Flow Control: HOL, IEEE802.3x Bandwidth Control	

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	Static Routing, RIPv1/v2, OSPFv2, BGP4
	OSPFv3, BGP4+
	OSPF multiple processes
	LPM Routing
	Policy-based routing (PBR) for IPv4 and IPv6
	VRRP
	URPF
	ECMP
L3 Features	BFD
Lo Features	DVMRP, PIM-DM, PIM-SM, PIM-SSM, Anycast RP, MSDP
	Static Multicast Route
	Multicast Receive Control
	Illegal Multicast Source Detect
	ARP Guard, Local ARP proxy, Proxy ARP, ARP Binding, Gratuitous ARP, ARP Limit
	Anti ARP Cheat, Anti ARP Scan
	DNS Client, DNS Relay
	GRE Tunnel
	6to4 Tunnel, Configured Tunnel, ISATAP Tunnel, GRE Tunnel ICMPv6, ND, DNSv6
ID(IPv6 LPM Routing, IPv6 Policy-based Routing (PBR)
IPv6	IPv6 VRRPv3, IPv6 URPF, IPv6 RA
	RIPng, OSPFv3, BGP4+
	MLD Snooping, IPv6 Multicast VLAN MLDv1/v2 PIM SM/DM for IPv6 Apvect PR IPv6 ACL IPv6 OoS
	MLDv1/v2, PIM-SM/DM for IPv6, IPv6 Anycast RP, IPv6 ACL, IPv6 QoS
	8 Queues
QoS	SP, WDRR, SWDRR
	Traffic Classification Based on 802.1p COS, ToS, DiffServ DSCP, ACL, port number
	Traffic Policing
	PRI Mark/Remark IP ACL, MAC ACL, IP-MAC ACL
	Standard and Expanded ACL Based on source/destination IP or MAC, IP Protocol, TCP/UDP
	•
ACL	port, DSCP, ToS, IP Precedence), VLAN, Tag/Untag, CoS Redirect and Statistics
	Rules can be configured to port, VLAN
	Time Ranged ACL
	802.1x AAA, Port, MAC-based authentication
	Accounting based on time length and traffic
Security	Guest VLAN and auto VLAN
Security	RADIUS for IPv4 and IPv6
	TACACS+ for IPv4 and IPv6
	MAB
DHCD 41.6	DHCP Server/Client for IPv4/IPv6
DHCPv4/v6	DHCP Relay/Option 82
Traffic Monitor	DHCP Snooping/Option 82
Traffic Monitor	sFlow Traffic Analysis
	CLI, WEB, Telnet, SNMPv1/v2c/v3 through IPv4 and IPv6
	Syslog and external Syslog Server
	HTTP SSL
	SNMP MIB, SNMP TRAP, RMOM 1,2,3,9
Security Network	FTP/TFTP
Management Network	SNTP/NTP
wanagement	Authentication by Radius/TACACS
	SSH v1/v2
	Dual firmware images/ Configuration files
	802.3ah OAM, 802.1ag OAM
	1002.3aii OAIVI, 002.1ag OAIVI

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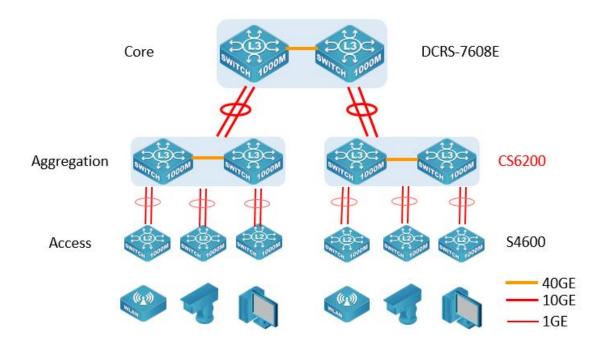


Data	Center	Fea-	VSF (Virtual Switch Framework)
tures			

Application

CS6200 fiber series are deployed as aggregation switches which provide gigabit downlink and 10G uplink in campus or enterprise network.

CS6200 fiber series is ideal aggregation for FTTx solutions



Order Information

Product	Description	
CS6200-28F-EI-R	10G Ethernet Routing Switch, 16 x 100/1000Base-X (SFP) + 8 x GE Combo (RJ45/SFP) + 4	
CS0200-20F-E1-K	x 10GbE (SFP+), AC + 12VDC RPS power supply	
CS6200-52F-EI	10G Ethernet Routing Switch, 48 x 100/1000Base-X (SFP) + 4 x 10GbE (SFP+), AC +	
CS0200-52F-E1	12VDC RPS power supply	

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