

# CS6200-28X-HI-24F L3+ 10G Routing Switch

## **Product Overview**

CS6200-28X-HI-24F next-generation 10G stackable routing switch has advanced hardware and software architecture design, built-in modular 1+1 redundant power supplies. CS6200-28X-HI-24F provides high availability, scalability, security, energy efficiency, and ease of operation with powerful features such as VSF (Virtual Switch Framework), redundant power supplies and OpenFlow. It is ideal for high-density aggregation or core layer for campus network, ISP, and enterprise.

Appearance	Description
CS6200-28X-HI-24F	<ul> <li>16 x GbE Combo (GT/SFP) + 8 x GbE (SFP) + 4 x 10GbE (SFP+) + 2 x Stacking port</li> <li>Redundant and modular AC+AC Power Supply</li> <li>1 console, 1 USB, 1 RJ45 management port</li> <li>Forwarding performance: 155Mpps</li> <li>Switching capacity: 208Gbps</li> </ul>
PASSAGE SEE From Large basis Fight from 1000 and A DCN State and 1000	<ul> <li>Dimensions (W x D x H):191mm x 300mm x 78mm</li> <li>Weight: 0.94 kg</li> <li>Rated input voltage range: 100V AC to 240V AC 50/60 Hz</li> <li>Maximum input voltage range: 90V AC to 264V AC, 47Hz to 63Hz</li> <li>Maximum input current: 90V AC to 136V AC:3A, 180V AC to 264V AC: 1.5A</li> <li>Maximum output current: 12.5A</li> <li>Rated output voltage:12V</li> </ul>
M6200-AC-A	<ul><li>Rated output power: 150W</li><li>Hot-swap: supported</li></ul>



### **Key Features and Highlights**

#### MPLS/VPLS

CS6200-28X-HI-24F supports MPLS L3 VPN/MPLS L2 VPN(VPLS) and helps the customer to construct a more secure/extendable network. With max.252 VRF instances, CS6200 series could be deployed as P & PE devices, guaranteeing the variety of services.

#### **VSF (Virtual Switch Framework)**

Virtual Switch Framework can virtualize multiple CS6200-28X-HI-24F 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 provides simplified management work for the network administrator and more reliability.

CS6200-28X-HI-24F has two hardware stacking ports that are specially used for VSF.

#### **OpenFlow**

CS6200-28X-HI-24F supports OpenFlow1.0 standard protocol. OpenFlow network is increasingly becoming a trend as the core protocol of the SDN network. It makes the network easier programming OpenFlow brings high performance to datacenter users via a self-defined network. With OpenFlow, this product is ideal to build SDN test-bed for research institutes and SDN Experimental Bureau for large ISP and operator.

#### Rich L3 Features

CS6200-28X-HI-24F 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 series, customers could easily achieve Policy-based Route (PBR), which is important when they need a multi exit application.

#### **Strong Multicast**

CS6200-28X-HI-24F 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 series provides a great application experience for the customer.

#### 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 advantages of fast convergence, simple protocol calculation, fewer system resources cost, and so on, which can improve the reliability of Ethernet network operation

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# **Specifications**

Itom	CS/200 20V III 24F
Item  Discription	CS6200-28X-HI-24F
Physical port	16 x GE Combo (GT/SFP) + 8 x GE(SFP) + 4 x 10GE(SFP+) + 2 x Stacking port
Management	10/100/1000Mbps RJ45 Ethernet Management port
Management port	1 Console port
D 0	USB2.0 interface
Performance	
<b>Switching Capacity</b>	208Gbps
Forwarding Rate	155Mpps
MAC Address	32k(standard)/40k(routee)/64k(bridgee) UFT configuration, default is standard mode
Routing Table	16K
L3 Interface	Max 1K
Physical	
Dimension (W*H*D)	440mm*44mm*350mm
Relative Humidity	10%~90% non-condensing
Temperature	Working 0°C~50°C, storage -40°C~75°C
Power Supply	2 power slots, 1+1 Modular Redundant
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, ERSPAN  IEEE802.1d(STP) IEEEE802.1w(RSTP) IEEEE802.1s(MSTP)  Root Guard  BPDU Guard  BPDU Tunnel  802.1Q, 4096 VLAN  MAC VLAN, Voice VLAN, PVLAN, 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, IGMP Proxy  ND Snooping  MLDv1/v2 Snooping  Port Security  Flow Control: HOL, IEEE802.3x
L3 Features	Bandwidth Control  Static Routing, RIPv1/v2, OSPFv2, BGP4 OSPFv3, BGP4+ OSPF multiple processes LPM Routing Policy-based routing (PBR) for IPv4 and IPv6 VRRP URPF, ECMP BFD

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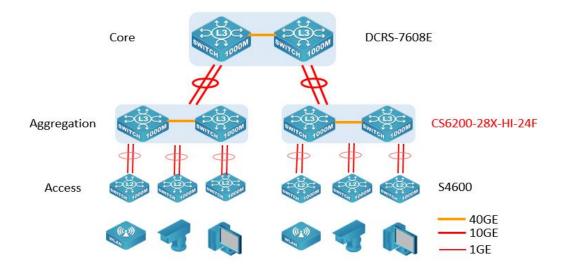
	DVMRP, PIM-DM, PIM-SM, PIM-SSM, Anycast RP, MSDP
	Static Multicast Route
	Multicast Receive Control
	Illegal Multicast Source Detect
	ARP Guard, Local ARP proxy, Proxy ARP, ARP Binding, Gratuitous ARP, ARP Limit
	Anti ARP Cheat, Anti ARP Scan
	DNS Client, DNS Relay
	GRE Tunnel
IPv6	6to4 Tunnel, Configured Tunnel, ISATAP Tunnel, GRE Tunnel
	ICMPv6, ND, DNSv6
	IPv6 LPM Routing, IPv6 Policy-based Routing (PBR)
	IPv6 VRRPv3, IPv6 URPF, IPv6 RA
	RIPng, OSPFv3, BGP4+
	MLD Snooping, IPv6 Multicast VLAN
	MLDv1/v2, PIM-SM/DM for IPv6, IPv6 Anycast RP, IPv6 ACL, IPv6 QoS
MPLS	MPLS, VRF, LDP
	MPLS L3 VPN, MPLS L2 VPN(VPLS), VPWS
	8 Queues
	SWRR, SP, WRR, DWRR, SDWRR, WRED
QoS	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
A CIT	port, DSCP, ToS, IP Precedence), VLAN, Tag/Untag, CoS
ACL	Redirect and Statistics
	Rules can be configured to port, VLAN, VLAN routing interfaces
	Time Ranged ACL
	802.1x AAA
	Port, MAC-based authentication
	Accounting based on time length and traffic
a .	Guest VLAN and auto VLAN
Security	RADIUS for IPv4 and IPv6
	TACACS+ for IPv4 and IPv6
	11101100 1 101 11 1
	MAB
	DHCP Server/Client for IPv4/IPv6
DHCPv4/v6	DHCP Relay/Option 82
	DHCP Snooping/Option 82
Traffic Monitor	sFlow Traffic Analysis
Security Network Manage- ment	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
	FTP/TFTP
	SNTP/NTP
	Authentication by Radius/TACACS
	SSH v1/v2
	Dual firmware images/ Configuration files
D. 4.	802.3ah OAM, 802.1ag OAM
Data	VSF (Virtual Switch Framework)
Center Features	Openflow1.0 (support open controller Opendaylight, Floodlight, Ryu, Pox, etc.)

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# **Application**

CS6200-28X-HI-24F is ideal deployed as aggregation switch providing Gigabit downlink and 10G uplink in a campus or enterprise network



# **Order Information**

Product	Description
CS6200-28X-HI-24F	10G Ethernet Routing Switch, 16 x GE Combo (GT/SFP) + 8 x GE(SFP) + 4 x
	10GE(SFP+) + 2 stacking port, modular power (2 power modules at most, 1+1 redundancy.
	Standard with no power module)
M6200-AC-A	AC Power Supply Module (150W) for CS6200-28X-HI-24F, 100V-240V. Could be pur-
	chased alone as accessory

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