



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
 <p>CS6200-28X-HI-24F</p>	<ul style="list-style-type: none"> ● 16 x GbE Combo (GT/SFP) + 8 x GbE (SFP) + 4 x 10GbE (SFP+) + 2 x Stacking port ● Redundant and modular AC+AC Power Supply ● 1 console, 1 USB, 1 RJ45 management port ● Forwarding performance: 155Mpps ● Switching capacity: 208Gbps
 <p>M6200-AC-A</p>	<ul style="list-style-type: none"> ● Dimensions (W x D x H): 191mm x 300mm x 78mm ● Weight: 0.94 kg ● Rated input voltage range: 100V AC to 240V AC 50/60 Hz ● Maximum input voltage range: 90V AC to 264V AC, 47Hz to 63Hz ● Maximum input current: 90V AC to 136V AC: 3A, 180V AC to 264V AC: 1.5A ● Maximum output current: 12.5A ● Rated output voltage: 12V ● Rated output power: 150W ● Hot-swap: supported

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

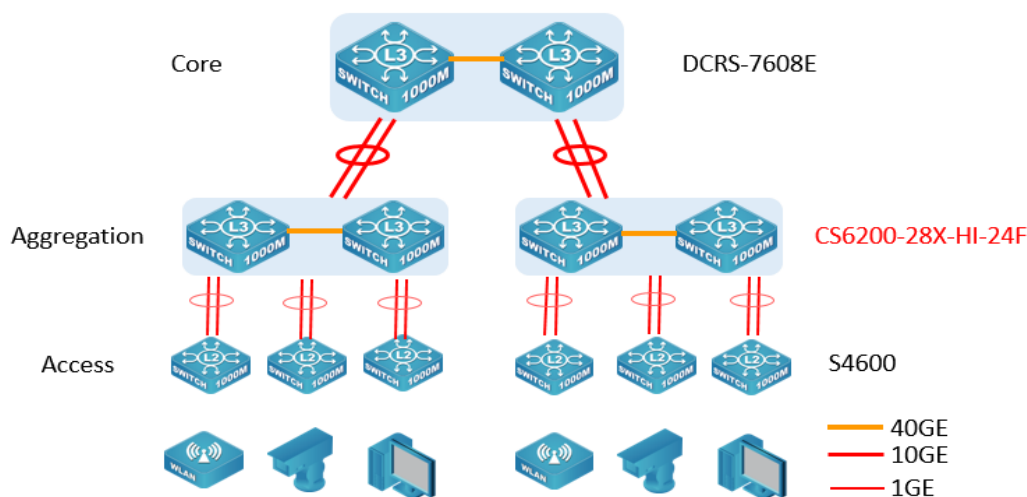
Specifications

Item	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 port	10/100/1000Mbps RJ45 Ethernet Management port
	1 Console port
	USB2.0 interface
Performance	
Switching Capacity	208Gbps
Forwarding Rate	155Mpps
MAC Address	32k(standard)/40k(routee)/64k(bridge) 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) IEEE802.1w(RSTP) IEEE802.1s(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
L3 Features	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
	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

	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
QoS	8 Queues SWRR, SP, WRR, DWRR, SDWRR, WRED Traffic Classification Based on 802.1p COS, ToS, DiffServ DSCP, ACL, port number Traffic Policing 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 Statistics Rules can be configured to port, VLAN, VLAN routing interfaces 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
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, RMON 1,2,3,9 FTP/TFTP SNTP/NTP Authentication by Radius/TACACS SSH v1/v2 Dual firmware images/ Configuration files 802.3ah OAM, 802.1ag OAM
Data Center Features	VSF (Virtual Switch Framework) Openflow1.0 (support open controller Opendaylight, Floodlight, Ryu, Pox, etc.)

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 purchased alone as accessory