

ETHERNET AGGREGATION SWITCHES CS6200 SERIES



CS6200-28X-HI-24F

CS6200-8G24S2Q-EI



Full
Layer 3



PIM Router



Extended
Network
Security



Stacking



Features
without hiding
costs



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FULL LAYER 3

- The CS6200 series provides powerful switches working in Layer 2 and Layer 3 offering up to 16,000 routing table entries.
- RIP, OSPF and BGP provide dynamic routing by exchanging route information with other layer 3 switches or routers.
- With the CS6200 Series devices, customers can easily achieve Policy-Based Routing (PBR) functionality when multiple output applications are needed.

PIM ROUTER

- The CS6200 series is equipped with a wide range of Protocol Independent Multicast (PIM) functions, including PIM-DM, PIM-SM, PIM-SSM and MSDP.
- Based on PIM router's function, the CS6200 series switch can act as a proxy server for multicast traffic. With having many television clients, we can limit the amount of traffic coming from the operator.

EXTENDED NETWORK SECURITY

- The use of RADIUS / TACACS authentication prevents unauthorized logins such as harmful changes to the switch configuration.
- Ingress / Egress access control lists (ACLs) can be used to limit access to sensitive network resources by filtering packets based on information in the L2 / L3 / L4 headers. In addition, the CS6200 Series products can support an Access Control List operating within a predetermined time range (Time Based ACL).
- Network administrators can use Unicast Reverse Path Forwarding (uRPF) to limit harmful network traffic. This functionality allows the layer 3 switch to check the reachability of the source address in forwarded packets. This allows you to limit the appearance of fake addresses on the network.

STACKING

- Virtual Switch Framework (VSF) can connect multiple DCN switches into one logical device, achieving sharing of information boards and data between different switches. By using this functionality, the devices in the stack have increased performance and the number of ports. VSF technology is also characterized by simplified management and greater operational reliability.

FEATURES WITHOUT HIDING COSTS

- With using switches of the CS6200 series you can be sure that the equipment which you are using has all available functionalities without the needs to purchase additional licenses.

| | CS6200 28X-HI-24F | CS6200 8G24S2Q-EI |
|---|--|---------------------------------|
| Switch Classification | | |
| Layer 3 | ✓ | ✓ |
| Connectivity | | |
| 10/100/1000Base-T (RJ45) | - | 8 |
| COMBO (10/100/1000Base-T (RJ45) Or 100/1000Base-X (SFP)) | 16 | - |
| 100/1000Base-X (SFP) | 8 | - |
| 1000/10GBase-X (SFP+) | 4 | 24 |
| 40GBase-X (QSFP) | - | 2 |
| Stacking port (QSFP) | 2 | - |
| Management port OOB (10/100Base-T RJ45) | - | - |
| Management port OOB (100/1000Base-T RJ45) | 1 | 1 |
| Performance | | |
| Switch fabric speed | 208 Gb/s | 656 Gb/s |
| Forwarding Rate | 155 Mp/s | 488 Mp/s |
| Packet buffer | 4 MB | 4 MB |
| Jumbo Frame | 16 K | 16 K |
| MAC address Table ⁽¹⁾ | 32 K (standard) / 40 K (routee)/ 64 K (bridgee) ⁽³⁾ | 32 K |
| Multicast MAC address Table | 4 K | 4 K |
| ACL Table | 3,8 K (Ingress) 1 K (Egress) | 2,7 K (Ingress) 1 K (Egress) |
| Routing Table ⁽²⁾ | 16 K | 16 K |
| ARP Table | 48 K (standard) / 40 K (routee)/ 16 K (bridgee) ⁽³⁾ | 16 K |
| Number of Vlan Interfaces (IP) | 1 K | 1 K |
| CPU clock | dual-core - 1 GHz | dual-core - 1,25 GHz |
| Flash memory | 32 MB SPI + 1 GB NAND | 32 MB SPI + 128 MB NAND |
| RAM memory | 1 GB | 512 MB |
| Resilience and availability | | |
| IEEE 802.1D STP/802.1w RSTP/802.1s MSTP | ✓ | ✓ |
| IEEE 802.3ad LACP | ✓ | ✓ |
| Virtual Cable Testing | ✓ | ✓ |
| DDM | ✓ | ✓ |
| LLDP / LLDP-MED | ✓ | ✓ |
| VRRP | ✓ | ✓ |
| Loop guard | ✓ | ✓ |
| ERPS (ITU-T G.8032) | ✓ | ✓ |
| Traffic control | | |
| 802.1Q VLANs | 4 K | 4 K |
| Port-based VLAN | ✓ | ✓ |
| Protocol-based VLAN | ✓ | ✓ |
| IP subnet based VLAN | ✓ | ✓ |
| Voice VLAN | ✓ | ✓ |
| Mac VLAN | ✓ | ✓ |
| Super VLAN | ✓ | ✓ |
| LACP algorithm of source/destination IP (load balance) | ✓ | ✓ |
| GVRP | ✓ | ✓ |
| 802.1ad Vlan Stacking (QinQ) | ✓ | ✓ |
| Flexible QinQ | ✓ | ✓ |
| Security | | |
| Layer 2 MAC filtering | ✓ | ✓ |
| BPDU Tunnel | ✓ | ✓ |
| Login authentication and authorization by RADIUS and TACACS+ | ✓ | ✓ |
| TACACS+ accounting/ auditing | ✓ | ✓ |
| SSH v1/v2 | ✓ | ✓ |
| DHCP/DHCPv6 snooping | ✓ | ✓ |
| IP/IPv6 Source Guard | ✓ | ✓ |
| Port security | ✓ | ✓ |
| IEEE 802.1x port-based / mac-based | ✓ | ✓ |
| Quality of Service | | |
| 802.1p Priority Queues per Port | 8 | 8 |
| 802.1p Queuing method | ✓ | ✓ |
| Trusted COS/TOS/IP Precedence/DSCP/Port number | ✓ | ✓ |
| Broadcast Storm Control | ✓ | ✓ |
| Rate Limiting, port based | ✓ | ✓ |
| Strict priority | ✓ | ✓ |
| Weighted Round Robin | ✓ | ✓ |
| Weighted Deficit Round Robin | ✓ | ✓ |
| Weighted Random Early Detection | ✓ | ✓ |
| Strict priority in Weighted Deficit Round Robin | ✓ | ✓ |

⁽¹⁾ MAC address Table shared for unicast and multicast (in 1:1 ratio)⁽²⁾ Routing Table shared for IPv4 and IPv6 (in 4:1 ratio)⁽³⁾ MAC address Table and ARP Table assigned depending on the selected operating mode (standard, routee or bridgee)

| | CS6200 28X-HI-24F | CS6200 8G24S2Q-EI |
|-------------------------------------|--------------------------------|--------------------------------|
| L2/L3 - Multicast | | |
| Multicast VLAN | ✓ | ✓ |
| IGMP v1,v2, v3 | ✓ | ✓ |
| IGMP Query | ✓ | ✓ |
| IGMP Snooping (v1,v2,v3) | ✓ | ✓ |
| IGMP Snooping Fast Leave(v2,v3) | ✓ | ✓ |
| PIM-DM/SM/SSM | ✓ | ✓ |
| Anycast RP | ✓ | ✓ |
| IPv6 MLD v1/v2 Snooping | ✓ | ✓ |
| Routing | | |
| Static Route IPv4 / IPv6 | ✓ | ✓ |
| RIP v1,v2 / RIPng | ✓ | ✓ |
| OSPF v2 / OSPFv3 | ✓ | ✓ |
| BGP / BGP4+ | ✓ | ✓ |
| Layer 3 IPv6 | | |
| IPv4/IPv6 Dual Protocol Stack | ✓ | ✓ |
| IPv6 address | ✓ | ✓ |
| IPv6 Tunneling | ✓ | - |
| Manageability | | |
| Console Port RS-232 (RJ45) | ✓ | ✓ |
| GUI (Web) | ✓ | ✓ |
| Telnet | ✓ | ✓ |
| SNMP v1/v2c/v3 | ✓ | ✓ |
| TFTP/FTP | ✓ | ✓ |
| Configuration backup and restore | ✓ | ✓ |
| Multilevel CLI | ✓ | ✓ |
| DNS Client | ✓ | ✓ |
| DHCP Client/Server/Relay | ✓ | ✓ |
| DHCP option 43/60/82 | ✓ | ✓ |
| DHCPv6 option 37/ 38 | ✓ | ✓ |
| DHCPv6 Relay/Server | ✓ | ✓ |
| SNTP / NTP | ✓ | ✓ |
| sFlow | ✓ | ✓ |
| RSPAN | ✓ | ✓ |
| ERSPAN | ✓ | ✓ |
| Cluster | ✓ | ✓ |
| Stack (VSF) | ✓ | ✓ |
| IEEE 802.3ah EFM | ✓ | ✓ |
| IEEE 802.1ag CFM | ✓ | ✓ |
| MIB | | |
| RFC1066 - TCP/IP-based MIB | ✓ | ✓ |
| RFC1213, 1157 - SNMPv2c/v3 MIB | ✓ | ✓ |
| RFC1493 - bridge MIB | ✓ | ✓ |
| RFC2674 - bridge MIB extension | ✓ | ✓ |
| RFC1643 - ethernet MIB | ✓ | ✓ |
| RFC1757 - RMON group 1,2,3,9 | ✓ | ✓ |
| RFC2925 - Remote Management MIB | ✓ | ✓ |
| RFC2233 - SMiv2 MIB | ✓ | ✓ |
| Physical | | |
| Dimensions (Width x Height x Depth) | 440 mm x44 mm x350 mm | 440 mm x 44 mm x 320 mm |
| Operating Temperature | 0 °C ~ 50 °C | 0 °C ~ 50 °C |
| Humidity | 10% - 90% (no condensation) | 10% - 90% (no condensation) |
| Electrical | | |
| Power Supply | 230 V AC or 48 V DC, Hot Swap | 230 V AC |
| Redundant Power Supply | 230 V AC or 48 V DC, Hot Swap | 48 V DC, RPS |
| Power Consumption | ≤ 90 W | ≤ 85 W |