

DATA CENTRE SWITCHES

CS6300 SERIES



CS6300-24X6C-HI

CS6300-48X6C-HI



Full
Layer 3



40Gb and
100Gb ports



Modular
power
supply



10Gb ports



Features
without hiding
costs



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FULL LAYER 3

- The CS6300 series provides powerful switches working in Layer 2 and Layer 3.
- RIP, OSPF and BGP provide dynamic routing by exchanging route information with other layer 3 switches or routers.
- CS6300 series is equipped with a wide range of Protocol Independent Multicast (PIM) functions, including PIM-DM, PIM-SM, PIM-SSM and MSDP.

40/100 GIGABIT PORTS

- The CS6300 series offers up to 6 ports 100 Gigabit which can work as a redundant link working with various ring protection functions, effectively increasing scalability and network performance.
- Through the ability to split streams on QSFP28 ports, this series devices allow 4x10Gb, 4x25Gb, 40Gb or 100Gb on each port.

MODULAR POWER SUPPLY

- The CS6300 series switches are equipped with redundant Hot-Swap power supplies and Hot-Swap fans to maintain continuous, uninterrupted network operation when replacing one of them.

10 GIGABIT PORTS

- The CS6300 series of access switches offers up to 48 x 10 gigabit ports.
- All SFP + ports support 10 gigabit as well as 1 gigabit transmission.

FEATURES WITHOUT HIDING COSTS

- With using switches of the CS6500 series you can be sure that the equipment which you are using has all available functionalities without the needs to purchase additional licenses.

CS6300	24X6C-HI	48X6C-HI
Switch Classification		
Layer 3	✓	✓
Stackable	✓	✓
Connectivity		
10/100/1000Based-T, fixed	-	-
Open SFP+ slot(10GbE)	24	48
Open SFP28 slot(25GE)	-	-
Open QSFP+ (40GbE)	-	-
QSFP28 (100GbE)	6	6
Performance		
Switching Capacity, Gbps	1680	2160
Forwarding Rate (Mpps)	600	600
Packet buffer, Bytes	6M	6M
Jumbo Frame	10K	10K
MAC address Table	32K	32K
ACL Table	1K	1K
Routing entries	16K	16K
ARP entries	8K	8K
Routing domains (IP interface)	1024	1024
CPU	Marvell CN9130 2.2GHz 4 core	Marvell CN9130 2.2GHz 4 core
Flash	32M SPI+ 8G MMC	32M SPI+ 8G MMC
RAM	4G	4G
Resilience and availability		
IEEE 802.1D STP/802.1w RSTP/802.1s MSTP	✓	✓
MST instance	64	64
Loop guard	✓	✓
Root guard	✓	✓
IEEE 802.3ad LACP(max # trunks/links per trunk)	128/8	128/8
ITU-T G.8032(ERPS)	✓	✓
Loopback-detection	✓	✓
VRRP	✓	✓
Traffic control		
802.1Q VLANs	4k	4k
Port-based VLAN	✓	✓
Protocol-based VLAN	✓	✓
IP subnet based VLAN	✓	✓
Voice VLAN	✓	✓
Mac VLAN	✓	✓
Super VLAN	✓	✓
LACP algorithm of source/destination IP	✓	✓
GVRP	✓	✓
802.1ad Vlan Stacking (QinQ)	✓	✓
Selective QinQ	✓	✓
Flexible QinQ	✓	✓
VLAN translation	✓	✓
Port isolation	✓	✓
Security		
Layer 2 MAC filtering	✓	✓
BPDU Tunnel	✓	✓
SSH v1/v2	✓	✓
DHCP/DHCPv6 snooping, VLAN-based	✓	✓
User-defined DHCP option 82	✓	✓
CPU protection	✓	✓
IP/IPv6 Source Guard	✓	✓
ARP inspection	✓	✓
port security	✓	✓
802.1X	✓	✓
Guest VLAN & Auto VLAN	✓	✓
Quality of Service		
Egress Queues per Port	8	8
Classification according to cos / dscp	✓	✓
Prioritize from DSCP to 802.1p	✓	✓
Remark cos / dscp / vid	✓	✓
Broadcast Storm Control	✓	✓
Rate Limiting, port based	✓	✓
Queueing scheduling method(SP/WRR/ SP +WRR)	SP/WDRR/SWDRR	SP/WDRR/SWDRR
Weighted Random Early Detection (WRED)	-	-
Layer 2 & Layer 3 Multicast		
Multicast VLAN	✓	✓
IGMP v1,v2, v3	✓	✓
IGMP Query	✓	✓
IGMP Snooping (v1,v2,v3)	✓	✓
IGMP Snooping Fast Leave(v2,v3)	✓	✓
IGMP multicast groups	4k	4k
PIM-DM/SM/SSM	✓	✓
anycast RP	✓	✓
IPv6 MLD v1/v2 Snooping	✓	✓
Routing		
RIP v1,v2	✓	✓
OSPF v2	✓	✓
IPv6 Static Route	✓	✓
RIPng	✓	✓
OSPFv3	✓	✓
BGP4+	✓	✓

CS6300	24X6C-HI	48X6C-HI
Layer 3 IPv6		
IPv4/IPv6 Dual Protocol Stack	✓	✓
Telnet / SSH / web over IPv6	✓	✓
IPv6 Tunneling	✓	✓
Manageability		
Web interface via http/https	✓	✓
Management through console, telnet, web, SNMP	✓	✓
Ping / traceroute	✓	✓
5 simultaneous Telnet / SSH sessions at least	✓	✓
Configuration backup and restore	✓	✓
Multilevel CLI	✓	✓
Encrypted password & community	✓	✓
Login authentication and authorization by RADIUS and TACACS+	✓	✓
Accounting commands entered via TACACS + and Syslog	✓	✓
TFTP/FTP/SFTP	✓	✓
DHCP Client/Relay/Server	✓	✓
DHCP relay per VLAN	✓	✓
DHCP option 43/60/82	✓	✓
DHCPv6 option37/38	✓	✓
DHCPv6 Relay/Server	✓	✓
NTP	✓	✓
Port Mirroring	✓	✓
Mirroring sessions	7	7
Port Mirroring per IP/TCP/UDP	✓	✓
RSPAN	✓	✓
ERSPAN	✓	✓
OAM EFM/CFM	✓	✓
VCT(VCT(Virtual Cable Testing))	✓	✓
DDM	✓	✓
LLDP/LLDP-MED	✓	✓
SNMP v2c/v3	✓	✓
SNMP traps	✓	✓
Syslog	✓	✓
Unidirectional link detection protocol	✓	✓
Data Center		
VXLAN	✓	✓
VTEP/VNI (VXLAN)	400/2k	400/2k
MLAG	✓	✓
Telemetry	✓	✓
Netconf	✓	✓
RoCE PFC & ECN	-	-
MIB		
RFC 1066 TCP/IP-based MIB	✓	✓
RFC1213, 1157 SNMPv2c/v3 MIB	✓	✓
RFC1493 bridge MIB	✓	✓
RFC 2674 bridge MIB extension	✓	✓
RFC1643 ethernet MIB	✓	✓
RFC1757 RMON group 1,2,3,9	✓	✓
RFC 2925 Remote Management MIB	✓	✓
RFC 2233 (rfc2233) - SMIv2 MIB	✓	✓
Physical		
Dimensions (Width x Height x Depth)	442.5mm * 44mm* 473mm	442.5mm * 44mm* 473mm
Operating Temperature	0°C ~ 45°C	0°C ~ 45°C
Power Supply	Modular AC (1+1 redundant, standard with 2 ACs)	Modular AC (1+1 redundant, standard with 2 ACs)
FAN	3+1 redundant, standard 4	3+1 redundant, standard 4
Airflow	front to back	front to back
Console Port	✓	✓
Electrical		
Maximum Power Consumption	120	130