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??????????? (Switch, ????? ECS421012T) L2 ECS4210-12T Edge-Core



L2 8x10/100/1000+4xSFP

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ECS4210-12T

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?????? Edge-Core ECS4210-12T ??????? ?????????????????????? ?????????????? ? ?????????????? L2/L4. ?????????? ??????? 8 ??????? 10/100/1000Base-TX ? 4 ??????? Gigabit Ethernet SFP ? ?????????????? ?? ???? ?????????? ??????? ?? ??????? ??????? ??? ?????????-?????????????. ??????? ??????? ?????????? ?????????????? ?????????? ?????????????? ??????? 1?????????IC, ?? ?????????? ?????????????? ??? ??????? ?????????????? ??????. ?????????? ECS4210-12T ?????????? ?????????????? ?????????????? ??????????, ? ?????????????? ?????????????? ??????? L2.

L2 ????????

Flow Control:

IEEE 802.3x for full duplex mode

Back-Pressure for half duplex mode

Storm Control

Broadcast

Multicast

Unknown Unicast

Spanning Tree Protocol:

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

BPDUGuard

BPDUFILTERING

Root Guard

BPDUTransparent

Loopback detection

VLANs:

Supports 4K VLAN

Port-based VLAN

IEEE 802.1Q VLAN

GVRP (256 VLANs)

IEEE 802.1v Protocol-based VLAN

Subnet based VLAN

MAC-based VLAN

Traffic Segmentation

Support Voice VLAN  
VLAN Trunking  
L2 Virtual Private VLAN  
QinQ  
Link Aggregation:  
Static Trunk  
IEEE 802.3ad Link Aggregation Control Protocol  
Trunk groups: 8, up to 8 ports per group  
Load balance based on MAC SA/DA, Ethertype, SIP, DIP,  
Source (TCP/UDP) port, Destination (TCP/UDP) port  
IGMP Snooping:  
IGMP v1/v2/v3 snooping  
IGMP Proxy reporting  
IGMP Filtering  
IGMP Throttling  
IGMP Immediate Leave  
IGMP Querier  
MVR (Multicast VLAN Registration)  
Support 5 Multicast VLAN  
Port Mirroring  
VLAN Mirroring  
Digital Diagnostic Monitoring (DDM)  
MAC Based Mirroring  
Remote Port Mirroring (RSPAN)  
Supports jumbo frames up to 13KB

QoS ??????

Priority Queues: 8 hardware queues per port  
Traffic Classification COS  
IEEE 802.1p based COS  
IP Precedence based COS  
IP DSCP based COS  
MAC access control lists (source/destination MAC, Ether type, priority  
ID/VLAN ID)  
IP standard access control lists (source IP)  
IP extended access control lists (source/destination IP, protocol,  
TCP/UDP port number)  
Traffic Scheduling  
Strict Priority  
Weighted Round Robin  
Strict + WRR traffic scheduling  
Two Rate Three Color Marker  
Ingress traffic policing  
Egress traffic shaping  
Marking/remarking  
Rate Limiting (ingress and egress, per port base)  
GE: Resolution 64 Kbps ~ 1000 Mbps  
DiffServ

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Port security  
IEEE 802.1X port-based and MAC-based authentication  
MAC authentication, Web authentication  
Voice VLAN, Guest VLAN, EAPOL frames pass through  
L2/L3/L4 Access Control Lists  
IPv6 ACL  
DHCP Snooping  
DHCP Option 82  
IP Source Guard  
Dynamic ARP Inspection  
RADIUS Authentication  
TACACS+ Authentication  
TACACS+ Authorization and Accounting  
HTTPS and SSL  
SSH (v1.5/v2.0)

User name password authentication  
Local authentication  
Remote authentication via RADIUS/TACACS+  
Management Interface Access Filtering  
SNMP  
Web  
Telnet/SSH  
MAC filter  
PPPoE intermediate agent\*

IPv6 ??????

IPv4/IPv6 dual protocol stack  
IPv6 Address Types Stack: Unicast  
IPv6 Neighbor Discovery  
SNMP over IPv6  
HTTP over IPv6  
Remote IPv6 ping

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