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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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