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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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10/100/1000Base-TX ? 4 ??????? Gigabit Ethernet SFP ? ???????????? ?? ???? ????????? ??????? ?? ??????? ??????? ???
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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)
BPDU Guard
BPDU filtering
Root Guard
BPDU transparent
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, E
ther type, priority
ID/VLAN ID)
IP standard access control lists (source IP)
IP extended access control lists (source/destinatio
n 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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