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$$\frac{1}{3}$$

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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