Siselectron
TECHNOLOGY

SNE3256
Enterprise Series Switch

MADE IN
TAIWAN
PREMIUM QUALITY

OVERVIEW

The Enterprise Series ethernet switches delivers performance, flexibility, security, and multi-layer Quality of Service (QoS) for Enterprises. With 24 and 48 Gigabit SFP/RJ-45 combo ports for desktop connections, 4 10-Gigabit SFP+ fiber connectivity and enhanced Layer 3 functions. SNE3256 provides 48 ports Gigabit RJ45 and 8 ports 10-Gigabit combo and 4 ports 10-Gigabit SFP+ fiber connection.

BENEFITS

-Fully layer 2 and layer 3 routing switch that supports advanced IPv4 and IPv6 routing features
-Industry standard command-line Interface (CLI) which reduces training and operating costs and combines industry-standard protocols that provide interoperability with legacy switches and routers
-High availability from both hardware and software perspective
-Power Supply Redundancy for Nonstop Operation
-Wire-Speed Performance for 10/100/1000 Connectivity

-The key features of the SNE3256 included high-performance hardware, easy to manage and provides exceptional cost-effective gigabit solution for enterprise, helping customers build a next generation IT network in a non-disrupted manner

CHARACTERISTICS

-Switching capacity: 256 Gbps
-Maximum forwarding rate: 190 Mpps
-Latency: 1.2 µs
-Memory: 2GB
-Flash: 2GB
-Cpu clock Rate: 1 HGz

Interface	48 1G Base T
	8 10G SFP+
	1 RJ45 serial Console
	1 10/100/1000 Base-T Mgmet Port
	1 USB2.0
Switch Capacity	256 Gbps
Forwarding	190 Mpps
Switching Chip	BCM56344 (Helix4)
PSU	1x 100W(fixed)
Fans	2
Weight (lbs)	10.04
Size (inches)	17.32 x 14.57 x 1.72
Airflow	Side to back
Operation Temperature	0°C ~ 50°C
Operation Humidity	5% ~ 95% non-condensing

L2 Features

Link Aggregation
- 802.3ad with LACP
- Unicast/Multicast traffic balance
- Virtual Port Channel (MLAG)

IGMP Snooping
- IGMP Snooping v1/v2/v3
- MLD Snooping
- Q-in-Q
- IGMP v1/v2 querier support
- Jumbo frame
- IGMP Immediate Leave
- 802.3x Flow Control

Spanning Tree
- IEEE802.1D
- BPDU Filter/Guard
- Auto Edge
- IEEE802.1s
- TCN Guard
- Root Guard
- IEEE802.1w
- Spanning Tree Fast Forwarding
- Edge port (same as fast forwarding)

VLAN
- IEEE802.1Q
- Port-Based
- Private VLAN

Storm Control
- Broadcast
- Unknown Multicast
- DLF (Unknown unicast)

QoS

Number of priority queue : 8
Scheduling
- WRR
- IP TOS Precedence
- Strict Priority
- Hybrid (WRR+Strict Priority)

COS
- 802.1p based COS
- IP DSCP based COS

DiffServ
- 32 number of class
- 13 rules per class
- No. class in policy : 64
- No. class in class : 28

Auto VoIP

L3 Features

128 IP interfaces
Multinetting/CIDR
31 subnet support
IP ARP
Proxy ARP
Local Procy ARP
IRDP
Static Route
ECMP
OSPF v2/v3
BGP v4/v6
Source IP Configuration
Policy-based Routing (PBR)
IPv6 Tunneling
IPv6 Loopback
VRRP
Loopback
DHCPv6 relay
DHCPv6 server

Multicast
- Multicast Group
- IGMP v1/v2/v3
- PIM-DM v4/v6
- IGMP proxy
- DVMRP
- MLD v1/v2
- PIM-SM v4/v6

Routes
- IPv4
- ARP entry
- IP IGMP/MLB
- DVMRP
- IPv6
- ND entries
- PM-SM/DM
- PIM-SM/DMv6

IPv6

v4/v6 dual stack
ICMPv6 / ICMPv6 redirect
IPv6 Path MTU Discovery
IPv6 Neighbor Discovery
Stateless Auto-configuration
Manual Configuration
DHCPv6
SNMP over IPv6
HTTP over IPv6
IPv6 Syslog Support
IPv6 SNTP Support
SSH over IPv6
IPv6 Telnet Support
IPv6 DNS Resolver
IPv6 TFTP Support
Remote IPv6 Ping

Security

Static/Dynamic Port Security
(MAC-based) 802.1x
- Port based
- Mac based
- VLAN assignment
- Guest VLAN
- Unauthenticated VLAN

ACL
- L2: MAC SA/DA, Cos, EtherType
- L3: IPv4 SA/DA, subnet based
- L3 IPv6 SA/DA, flow-label, DSCP
- L4: TCP/UDP port
- Time-based ACL

RADIUS
- Authentication
- Accounting

TACACS+
- Authentication

HTTPS & SSL
SSH 1.5/2.0
User authentication
- Local
- RADIUS/TACACS+
- AAA

DoS Control
MAC filter
DHCP snooping
IP Source Guard
Dynamic ARP inspection
Control Plane Policy (CoPP)

Management

Industrial standard CLI
CLI filtering
TELNET/SSH
Software/configuration upload/
    download using TFTP/XMODEM/
    FTP/HTTP/SCP/SFTP
Dual Image support
SNMP v1/v2c/v3
RMON 1,2,3,9 groups
BOOTP client/relay
DHCP
- Client
- Server
- Relay
- L3 option 82 relay

Event log
DNS client
- L2 option 82 relay

Utility: Remote ping, traceroute
SNTPv4
LLDP: 802.1AB, 802.MED
CDP
UDLD
Port mirroring
- SPAN: one-to-one, many-to-one
- SPAN with ACL filter
- SPAN with VLAN
- RSPAN
- ERSPAN

sFlow v5
Cable test
Email alerting
Auto install