



SNE3228

Cloud Builder 40G Switch

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. SNE3228 provides 24 ports Gigabit RJ45 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 SNE3228 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: 128 Gbps
- Maximum forwarding rate: 95 Mpps
- Latency: 1.2 μs
- Memory: 2GB
- Flash: 2GB
- Cpu clock Rate: 1 HGz

Interface	24 1G Base T 4 10G SFP+ 1 RJ45 serial Console 1 10/100/1000 Base-T Mgmt Port 1 USB2.0
Switch Capacity	128 Gbps
Forwarding	95 Mpps
Switching Chip	BCM56342 (Helix4)
CPU	ARM embedded
CPU Clock Rate	1 GHz
System Memory	2G
Flash Memory	2GB NAND + 2MB SPI
Packet Buffer Memory	4MB
PSU	1x 165W(fixed)
Fans	2
Latency	< 1.2 microsecond
Input Voltage	100V ~ 240V AC ° 50Hz ~ 60Hz
Weight (lbs)	7.8
Size (inches)	17.32 x 11.02 x 1.72
Airflow	Side to back
Operation Temperature	0°C ~ 50°C
Operation Humidity	5% ~ 95% non-condensing



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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)

Layer 3 Features

Number of IP interface: 128

Multi-netting / CIDR

31 subnet support

IP ARP

Proxy ARP

Local Proxy 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

- PIM-SM v4/v6

Routes

- IPv4

- ARP entry

- IP IGMP/MLB

- IPv6

- ND Entries

- PM-SM/DM

- PIM-SM/DMv6

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

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 SNMP 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