Siselectron
TECHNOLOGY

SNI3052

Enterprise-Class Ethernet Switch

OVERVIEW

The SNI3052 is a high performance layer 2/3/4 Ethernet switch with 48 10Base-T/100Base-TX/1000 Base-T ports and 4 dual speed 1GbE/10GbE SFP+ ports in a compact rack unit size.

The SNI3052 can be managed through command line interface or user friendly Web GUI provided via a standard Web browser for switch management.

The SNI3052 also supports Simple Network Management Protocol (SNMP) both from standard MIB and private MIB for network administrator to easily configure monitor and manage operation remotely.

FEATURING

- IP Multinetting /CIDR/31 subnets
- Proxy ARP
- IRDP
- Static route
- RIP v1/v2
- OSPF
- ECMP
- BGP4
- IGMP v1/v2/v3
- DVMRP
- PIM-DM/-SM
- VRRP
- Source IP Configuration
- Policy-based routing

IPv6 Layer 3 features
- Static Route
- RIPng
- OSPFv3
- MLD v1/v2
- PIM-DM6/-SM6

CHARACTERISTICS

- **Switching capacity: 176 Gbps**
- **Maximum forwarding rate: 131 Mpps**
- **Latency: 4.0 μs**
- **MAC: 32K**
- **Memory: 1GB**
- **Flash: 64MB**

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 SNI3052 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.

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L2 Features
- **Switching mode**: store -and –forward
- **Spanning Tree Protocol**:
- -802.1D, 802.1w & 802.1s
- -Fast Forwarding - Edge Port
- -Loop Guard - BPDU Filter/Guard
- -Auto Edge
- -TCN Guard
- -Root Guard
- **VLAN**:
- - IEEE 802.1Q Tagged Base
- - Port -Based 4 o 93
- - Private VLAN
- - GVRP/GMRP
- - 802.1v Protocol VLAN
- - Voice VLAN
- - MAC -Based VLAN
- - IP-Subnet VLAN
- - MAC -Based Voice VLAN
- - VTP v1/v2
- - QinQ
- **Storm Control**:
- - Broadcast
- - Unknown multicast
- - DLF (Unknown unicast)
- **IGMP snooping**:
- - v1/v2/v3 - v1/v2 Querier
- - Immediate Leave
- **Link Aggregation**:
- - 802.3ad with LACP (64 groups)
- - Static Trunk
- - Unicast/Multicast Traffic Balance over
- - LACP Fallback
- **Multi-chassis LAG (MLAG)**
- **Link state**
- **Port backup**
- **Error - Disable Recovery**

Management Features
- Industrial command
- - line interface
- CLI filtering
- Web Based Management/HTTPs
- Telnet/SSH
- Software download/upload:
- - TFTP, Xmodem, FTP, and SCP/SFTP
- Configuration download/upload:
- - TFTP, Xmodem, FTP, and SCP/SFTP
- Dual image
- SNMP v1/v2c/v3
- SNMP inform: v2/v3
- RMON 1, 2, 3, & 9
- BOOTP: client/relay

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- DHCP: client
- DHCP: relay
- DHCP L2 option 82 Relay
- DHCP L3 option 82 Relay
- EVENT/Error log: Local Flash
- DDNS
- DNS: client
- Remote relay
- Traceroute
- SNTPv4
- LLAP client
- LLDP: 802.1ab
- CDP
- UDLD
- Port mirroring: SPAN
- sFlow v5
- Cable test
- Email alerting
- CLI scheduler
- Auto install

Security Features
- Static and dynamic port security (MAC -based)
- 802.1x: Port
- -based, MAC
- -based, auto VLAN assignment, guest VLAN,
  - unauthenticated VLAN
- Access Control List: L2/L3/L4
- IPv6 ACL: L3/L4
- RADIUS: Authentication and accounting
- TACACS+: Authentication
- HTTPS and SSL: AES128-cbc, 3ES-cbc, Blowfish-cbc.
- SSH 1.5N2.0: AES128-cbc, 3ES-cbc, Blowfish-cbc.
- User name and password: Local Authentication,
  - Remote Authentication via. RADIUS/TACACS+, AAA.
- Denial of Service control
- Management IP filtering: SNMP/Web/Telnet/SSH
- MAC filtering
- IP Source Guard
- Dynamic ARP inspection (DAI)
- DHCP snooping

QoS Features
- Scheduling for priority queue:
- - WRR, Strict, and Hybrid
- COS: 802.1p, IPTOS precedence, & DSCP
- DiffServ
- iSCSI optimization
- Auto VoIP
- Portrate limit

IPv6 Management
- IPv4/1Pv6 Dual Protocol Stack
- ICMPv6
- ICMPv6 Redirect
- IPv6 Path MTU Discovery
- IPv6 Neighbor Discovery
- Stateless Autoconfiguration
- Manual Configuration
- DHCPv6
- SNMP over IPv6
- HTTP over IPv6
- SSH over IPv6
- IPv6 Telnet Support
- IPv6 DNS resolver
- IPv6 RADIUS Support
- IPv6 TACACS+ Support
- IPv6 Syslog support
- IPv6 SNTP support
- IPv6 TFTP support
- Remote IPv6 Ping

PHYSICAL

Dimension (HxWxD): - 43 x 435 x 393 mm
Weight: - 7.15 kg/15.76 lbs (NET)
Power requirement: 100-240VAC, 50/60Hz.
Power consumption: 95 watts
Operating temperature: 0 - 45°C
Operating humidity:
  - 90% maximum relative humidity

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