Siselectron
TECHNOLOGY

SNI3050

Enterprise-Class Ethernet Switch

OVERVIEW

The SNI3050 model is the new generation of layer 2 standalone switches that provide
48 10/100/1000Base-T downlink plus 2 1/10GBase-X SFP+ uplink ports is ideal for branch office access network design. Supported with 802.1Q up to 4094 active VLANs in the SNI3050, it secures broadcast domain as well as resource access in between each VLAN.

Equipped with full Layer 2 features like Spanning Tree, Link Aggregation Control Protocol (LACP), IGMP Snooping and Port Mirroring provides loop-free environment, flexible throughput adjusting, best control of multicast traffic and network monitoring. It integrates advanced management and security functions for contemporary network requirements.

FEATURING

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 - Private VLAN
- GVRP / GMRP
- 802.1v Protocol VLAN
- MAC
-Based VLAN
- IP-Subnet VLAN
- MAC
- Based Voice VLAN
- VTP v1/v2
- QinQ

CHARACTERISTICS

-Switching capacity: 136 Gbps
-Maximum forwarding rate: 101.2 Mpps
 Latency: 4.2 µs
-MAC: 16K
-Memory: 512MB
-Flash: 32MB

BENEFITS

-Fully layer 2 connectivity switch that supports advanced security, multicast, and QoS 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.
-Remote configuration and management.
-Secure and easy-to-use graphical interface for configuring the module via HTTP.
-High availability from software perspective.
-Facilitate centralized discovery, monitoring, and secure manage-
 ment through SNMPv1, v2c, and v3.
-Wire-Speed Performance for 10/100/1000 Connectivity.
-AC and DC power.

The key features of the SNI3050 included high-performance hardware,easy to manage and provides exceptional cost-effective gigabit solution for enterprise networks.

• 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
- Trunking Port
- LACP Fallback

Management Features
• Industrial command
- line interface
• CLI filtering
• Web Based Management / HTPPs
• Telnet/SSH
• Software download/upload:
- TFTP, Xmodem, FTP, and SCP/SFTP
• Configuration download/upload:
- TFTP, Xmodem, FTP, and SCP/SFTP
• SNMP v1/v2c/v3
• SNMP inform: v2/v3
• RMON 1, 2, 3, & 9
• BOOTP: client/relay
• DHCP: client
• Event / Error Log: Local Flash
• DDNS
• DNS: client
• Remote PING
• Traceroute
• SNTPv4
• LDAP: client
• LLDP: 802.1 ab
• CDP
• UDLD
• Port mirroring: SPAN
• sFlow v5
• Cable test
• Email alerting
• CLI scheduler

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/TACACS+ support
• IPv6 Syslog support
• IPv6 SNTP support
• IPv6 TFTP support
• Remote IPv6 Ping

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/Telnet/SSH
• MAC filtering
• IP Source Guard
• Dynamic ARP inspection (DAI)
• DHCP snooping

QoS Features
• Scheduling for priority queue:
- WRR, Strict, and Hybrid (WRR+Strict)
• CzOS: 802.1p, IPTOS precedence, &
  DSCP
• DiffServ
•Auto VoIP
• Portrate limit

PHYSICAL
-Dimension (HxWxD): 44 x 440 x 292 mm
-Weight: 4 kg/ 8.811 lbs (NET)
-Power requirement: 100-240VAC, 50/60Hz
-Power consumption: 63 watts
-Operating temperature: 0 - 45°C
-Operating humidity: - 90% maximum
  relative humidity