

SNM2410

Industrial 8-Port High PoE Managed Switch



8PoE 10/100 Base TX + 2G Combo.

30W PoE

120 Power

CLI and Web Management.

-40-75° Operating Temperature



OVERVIEW

Siselectron SNM2410, the revolutionary industrial Gigabit managed Power over Ethernet Switch is designed with eight 10/100TX PoE injector ports and two Gigabit RJ-45 / SFP combo ports for highly critical PoE applications such as real time IP video surveillance, WiMAX systems and Wireless APs.

All of the 8 ports of the switch are compliant with both IEEE 802.3af PoE and IEEE 802.3at high power PoE standards and can deliver up to 15.4W and 30W power per port to enable the high-power requiring devices, such as Wireless APs, PTZ and dome network cameras, etc. The two Gigabit Ethernet combo ports provide high speed uplink to connect with higher level backbone.

BENEFITS

- 8 /10/100 Base TX PoE ports and 2 Gigabit RJ/ SFP combo ports
- IEEE 802.3af 15.4W / IEEE 802.3at 30W High Power PoE
- SFP ports support 100/1000 Mbps with Digital Diagnostic
- Monitoring DDM to monitor long distance per quality
- Hi-Pot Isolation Protection for ports and power
- Multiple event relay output for enhanced device alarm control
- Industrial heat dispersing design, -40~75°C wide operating temperature
- Advanced management by LACP/VLAN/GVRP/QoS/IGMP/ Private VLAN/QinQ/Snooping/Rate Control/On line Multi-Port Mirroring/DHCP
- Advanced Security system by Port Security, Access IP list, SSH and HTTPS Login
- Event Notification through E-mail, SNMP trap and SysLog
- IEEE 802.1AB LLDP and optional Siselectron Technology NMS software for auto-topology and group management Cisco-Like CLI, Web, SNMP/RMON for network management

INTERFACE

- Enclosure Port: 10/100Mbps PSE port: 8 x RJ-45 Gigabit Ethernet port : 2 x RJ-45 with auto DI/MDI-X function
100Mbps / 1000Mbps Fiber port: 2 x SFP Socket for SFP fiber transceiver with Hot-swappable and D.D.M. functions
Console port : 1 x RJ45 for system configuration.
Digital Input/Relay Output port: 4-Pin removable terminal block connector.
Power input port: 4-Pin removable terminal block connector
- Cables: 100 Base-TX: 2-pairs UTP/STP/FTP Cat.5 cable, EIA/TIA-568B 100-ohm (100m) 1000 Base-T: 4-pair UTP/STP/FTP Cat.5e cable, EIA/TIA-568B 100-ohm (100m) Uses STP or FTP cable can provide higher electromagnetic resistance to correspond vertical market standard, such as rail way EMC-EN50121-4.
- Digital Input: Digital Input (Hi): DC 11V~30V Digital Input (Low): DC 10V~0V Supports sink type signal input with photo-coupler isolation
- Diagnostic Indicators: Power: Green On: (System power applied) D.I.: Green On (digital signal high level is detected) D.O.: Red On. (relay active and form as) on Sys: Green On (System Ready), Blinking (System perform firmware upgrade) R.S. (Ring status): Green on (Ring normal) / Blinking (Ring with wrong port), Yellow on (Ring abnormal) / Blinking (device's ring port failed) LNK (Link): Green on, ACT (Active): Green Blinking PoE: Yellow on (PoE is applying power)

Industrial 8-Port High PoE Managed Switch

Performance

- Switch Technology: Store and Forward Technology with 32Gbps Switch.
- System Throughput: 8.3 Mega packet per second
- CPU performance: 2000
- Packet Buffer: 32 bits ARM-9E running at 180 Mhz and performance up to 200MIPS; Embedded hardware based watch-dog timer.
- System Memory: 8M bytes flash ROM, 64M bytes SDRAM
- Packet Buffer: 1M bits shared memory for packet buffer
- Forwarding performance: 14,880 pps for Ethernet and 148,800 pps for Fast Ethernet, 1488,100 pps for Gigabit Ethernet.
- Environment Monitoring: Embedded board-level thermal detector for system temperature monitoring

System Management

- Configuration and monitoring interface: Telnet, local RS-232 console, Web- browser interface, SNMP, Trap and SMTP interface. Cisco-Like CLI, Telnet, Web, TFTP/Web Update for firmware and configuration backup and restore, DHCP Client, warm start, factory default, Admin password, Port Speed/Duplex Control, status, statistic, MAC address table display, static MAC, Aging time, SNMP v1, v2c, v3, Traps and RMON groups 1,2,3,9.
- Telnet & Local Console: Supports command line interface
- SNMP: v1, v2c, v3 with SNMP trap function, trap station up to 4 and can be manually configured the trap server IP address
- SNMP MIB: MIBII, Bridge MIB, Ethernet-like MIB, VLAN MIB, IGMP MIB, Siselectron Technology Private MIB
- Siselectron Technology Utility: Supports Siselectron Technology NMS with IEEE 802.1AB Link Layer. Discovery Protocol for device and link auto-topology discovery

- Network Time Protocol: Supports NTP protocol with daylight saving function and localized time sync function
- Management IP Security: IP address security to prevent unauthorized access
- E-mail Warning: 4 receipt E-mail accounts with mail server authentication
- System Log: Supports both Local or remote Server with authentication

Network Performance

- Port Configuration: Port link Speed, Link mode, current status and enable/disable
- Port Trunk: IEEE 802.3ad port aggregation and static port trunk; trunk member up to 8 ports and maximum 5 trunk groups include Gigabit Ethernet port
- VLAN: IEEE 802.1Q Tag VLAN with 256 VLAN Entries and provides 2K GVRP entries 3 VLAN link modes- Trunk, Hybrid and Link access
- Private VLAN: Direct client ports in isolated/community VLAN to promiscuous port in primary VLAN
- IEEE802.1 QinQ: Supports Double VLAN Tag function for implementing Metro Network topologies
- Class of Service: IEEE 802.1p class of service; per port 4 priority queues
- Traffic Prioritize:: Supports 4 physical queues, weighted fair queuing (W.R.R.) and Strict Priority scheme, which follows 802.1p CoS tag and IPv4 ToS/ DiffServ information to prioritize the traffic of your industrial network
- IGMP Snooping: IGMP Snooping v1/v2c /v3 for multicast filtering and IGMP Query mode; also support unknown multicasting process forwarding policies- drop.
- Rate Control: Ingress/Egress filtering for Broadcast, Multicast, Unknown DA or All packets
- Port Mirroring: Online traffic monitoring on multiple selected ports
- Port Security: Port security to assign authorized MAC to specific port
- DHCP: DHCP Client, DHCP Server with IP & MAC Address binding, DHCP relay and port based DHCP server

- IEEE 802.1x: Port based network access control
- Harsh Environment Use:
 - IP68 rated

Power Over Ethernet

- PoE Standards: IEEE 802.3af / IEEE 802.3at End-span wiring architecture
- PoE Operating Mode: Auto mode: Auto detects and powering by IEEE 802.3af, IEEE 802.3at 2-event / 2-event plus LLDP behaviors. Forced mode: User configured power consumption without detection, classification
- PoE forwarding conductor: V+: RJ-45 conductor 3,6 V-: RJ-45 conductor 1,2
- Power forwarding ability: IEEE 802.3af: 15.4w /port, IEEE 802.3at:30w/port
- PoE System Power Budget: 120W @ 75°C / 240W @ 60°C, 95 Humidity, DC 48V power input
- Power Budget Control: Port-based system power budget control with first plug-in high priority mechanism
- Power Consumption: 8 Watts 50V (Maximum) without PD loading

Network Redundancy

- Multiple Super Ring (MSR)™: Ring Redundancy Technology, Includes Rapid Super Ring, Rapid Dual Homing, TrunkRing, MultiRing and backward compatible with legacy Super Ring.
- Rapid Dual Homing (RDH): Multiple uplink paths to one or multiple upper switch
- TrunkRing: Integrates port aggregation function in ring path to get higher throughput ring architecture
- MultiRing™: Couple or multiple rings supports up to 4 100M rings and 2 Gigabit rings in single switch
- Rapid Spanning Tree: IEEE802.1D2004 Rapid Spanning Tree Protocol. Compatible with Legacy Spanning Tree and IEEE 802.1w multiple spanning tree.