tactio™

- 24 port 10/100/1000 PoE + 2 Gigabit SFP/RJ45 Combo Ports
- IEEE 802.3at/af PoE, up to 30W per port
- Layer 2 Full Managed Software Features with Static Routing, MSTP, LACP, LLDP, sFlow, 802.1X, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN
- PD Alive Check
- Automatically adjust fan speed function

24 Port 10/100/1000 PoE + 2 Gigabit SFP/RJ45 Combo Ports Layer 2 Full Management Switch

Introduction

INEO-GM2402P is 24 port 10/100/1000 PoE + 2 Gigabit SFP/RJ45 Combo Ports, L2+ Full Managed Switch that is designed for small or medium network environment to strengthen its network connection. The 24 PoE ports support IEEE 802.3at/af PoE technology, up to 30W per port and maximum 100m transmission distance. The switch equipped with AC to DC power module to support 460W power budget for PoE power. The added 2 SFP/RJ45 combo ports support 100M and Gigabit Fiber transceiver for long distance transmission. The switch also supports Layer 2+ full management software features. These features are powerful to provide PoE Control, Network Control, Management, Monitor and Security features' requests. It is a superb choice to boost your network with better performance, efficiency and high PoE power consumption.

IEEE 802.3at/af Power over Ethernet (PoE) ports

INEO-GM2402P can convert standard 100~240V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at/af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3at/af compliant, or only the data will be sent through LAN cable. By adding the switch to the existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up.

2 Gigabit RJ45 Copper/SFP Combo Ports

INEO-GM2402P supports 2 Gigabit Copper/SFP Combo Ports to uplink to servers, storage, or other switching devices for long loop reach applications.

Full Layer 2+ Management Features

INEO-GM2402P includes full Layer 2+ Management features. The software set includes up to 4K 802.1Q VLAN and advanced Protocol VLAN, Private VLAN, MVR…advanced VLAN features. There are 8 physical queues Quality of Service, IPv4/v6 Multicast filtering, Rapid Spanning Tree protocol to avoid network loop, Multiple Spanning Tree Protocol to integrate VLAN and Spanning Tree, LACP, LLDP; sFlow, port mirroring, cable diagnostic and advanced Network Security features. It also provides Console CLI for out of band management and SNMP, Web GUI for in band Management.

Advanced Security

INEO-GM2402P supports advanced security features. For switch management, there are secured HTTPS and SSH, the login password, configuration packets are secured. The port binding allows to bind specific MAC address to the port, only the MAC has the privilege to access the network. The 802.1X port based Access Control, every user should be authorized first when they want to access the network. AAA is the short of the Authentication, Authorization and Accounting with RADIUS, TACAS+ server. Layer 2+ Access Control List allows user to define the access privilege based on IP, MAC, Port number etc.

PD Alive Check

When this function is enabled, INEO-GM2402P will detect a network PoE powered device (for example, an IP Camera) with a set of IP address periodically. If the switch doesn't get any replies from the network PoE powered device, INEO-GM2402P will do a power cycle (PoE power OFF, and PoE power ON) to the port that connects the network PoE powered device, allowing that device to reboot. You can set the frequency of detecting, number of times of detecting, and the time period to perform power cycle when there's no reply via the switch's PoE configuration web page.

Technical Specifications

Standard

- IEEE 802.3 – 10BaseT
- IEEE 802.3u - 100BaseTX
- IEEE 802.3ab - 1000BaseT
- IEEE 802.3z 1000BaseSX/LX
- IEEE 802.3af Power over Ethernet (PoE)
- IEEE 802.3at Power over Ethernet (PoE+)
- IEEE 802.3az - Energy Efficient Ethernet (EEE)
- IEEE 802.3x - Flow Control
- IEEE 802.1Q – VLAN
- IEEE802.1v - Protocol VLAN
- IEEE 802.1p - Class of Service
- IEEE 802.1D - Spanning Tree
- IEEE 802.1w - Rapid Spanning Tree
- IEEE 802.1s - Multiple Spanning Tree
- IEEE 802.3ad - Link Aggregation Control Protocol (LACP)
- IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)
- IEEE 802.1X - Access Control

Interface

- 10/100/1000 RJ45 Ports : 24
- 100/1000 SFP and 1000 RJ45 Combo Port: 2
- Console Port for CLI Management : 1

System Performance

- Packet Buffer : 4Mbits
- MAC Address Table Size : 8K
- Switching Capacity : 52Gbps

L2 Features

- Auto-negotiation
- Auto MDI/MDIX
- Flow Control (duplex)
  - 802.3x (Full)
  - Back-Pressure (Half)
- Spanning Tree
  - IEEE 802.1D (STP)
  - IEEE 802.1w (RSTP)
  - IEEE 802.1s (MSTP)
- VLAN
  - VLAN Group : 4K
  - Tagged Based
  - Port-based
  - Voice VLAN with OUI
- Link Aggregation
  - IEEE 802.3ad with LACP
  - Static Trunk
  - Max. LACP Link Aggregation Group :13
  - Max. Port per Link Aggregation Group : 8
- IGMP Snooping
  - IGMP Snooping v1/v2/v3 : Supports 1024 IGMP groups
  - IGMP Static Multicast Addresses : Supports 1024 static multicast addresses
  - IPv6 MLD Snooping : Supports 1024 MLD groups
  - MLD Static Multicast Addresses : Supports 1024 static multicast addresses
  - Querier, Immediate Leave
- Storm Control (Broadcast/Multi-cast/Un-known Unicast)
- Jumbo Frame Support : 9.6KB

- Forwarding Rate : 38.688Mpps

PoE Features

- IEEE 802.3 af/at
- Number of PSE Ports : 24
- Max. Power Budget : 460W
- Max. System Power Consumption : 30W
- Max. Total Power Consumption: 520W
- Power Type : Internal Power
- Power Feeding Detecting Capability on PD
- PD Alive Check
- PD Classification
- Power Management (per-port)
  - Enable/Disable PoE Per Port
  - Priority Setting Per Port
  - Power Level Setting Per Port
  - Overloading Protection
  - Power Usage Display (Watt)

Management

- Command Line Interface (CLI)
- Web Based Management
- Telnet
- Access Management Filtering : SNMP/WEB/SSH/TELNET
- Firmware Upgrade via HTTP
- Dual Firmware Images
- Configuration Download/Upload
- SNMP (v1/v2c/v3)
- RMON (1,2,3,9 groups)
- DHCP (Client/Relay/Option82/Snooping)
- System Event/Error Log
- NTP/LLDP
- Cable Diagnostics
- IPv4/IPv6 Configuration
- DHCP Relay
- Port Mirroring : One to One or Many to One
- Packet Transmitting/Receiving Traffic Display

- Static Routing

QoS Features

- Number of priority queue : 8 queues/port
- Rate Limiting
  - Ingress : 1KBps/1pps
  - Egress : 1KBps/1pps
- DiffServ (RFC2474 Remarking)
- Scheduling (WRR, Strict, Hybrid)
- CoS
  - IEEE 802.1p
  - IP ToS precedence, IP DSCP

Security

- Management System User Name/Password Protection
- User Privilege : Set user privilege up to 15 Level
- Port Security (MAC-based)
- IEEE 802.1x Port-based Access Control
- ACL (L2/L3/L4)
- IP Source Guard
- RADIUS (Authentication, Authorization, Accounting)
- TACACS+
- HTTP & SSL (Secure Web)
- SSH v2.0 (Secured Telnet Session)
- MAC/IP Filter

Mechanical

- Power Input : 100~240VAC
- Dimension (H*W*D) : 44*330*210 mm
- LED : Power, PoE, Link/Act, SFP
- Operating Temperature : 0~45°C
- Storage Temperature : -20~80°C
- Operating Humidity : 5~90% (non-condensing)
- Weight : 4.8 KG
- Certification : VCCI, CE, FCC Class A