



- 8-port 10/100/1000M + 2 Gigabit SFP Ports
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN

## 8-Port 10/100/1000M + 2 Gigabit SFP Ports Layer 2+ Full Managed Switch

### Introduction

INEO-GM0820 is 8-port 10/100/1000Base-T + 2 Gigabit SFP L2 Full Managed Switch that is designed for small or medium network environment to strengthen its network connection. The switch equipped with internal AC to DC power module as system power. The added 2 SFP slots support 100M and Gigabit Fiber transceiver for long distance transmission. The Switch embedded L2 Full Managed software engine to support SNMP, 802.1Q VLAN, QoS, RSTP, LACP, LLDP, 802.1X and Access Management...etc. The 4K VLAN, 8 physical queues, 5 groups link aggregation groups are superb functionality for all applications. With these features, the switch is ideal for the SMB network environment to strengthen its network connection.

### 2 Gigabit SFP Open Slots

INEO-GM0820 supports 2 additional SFP open slots to uplink to servers, storage, or other switching devices for long reach applications. The 2 SFP slots support legacy 100M SFP transceiver. If the 100M fiber infrastructure is constructed and 100M bandwidth is enough, the 100M SFP transceiver can be an optional choice for the legacy 100M network environment.

### Full Layer 2+ Management Features

INEO-GM0820 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-GM0820 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.

## Technical Specifications

### Interface

- 10Base-T/100Base-TX/1000Base-T RJ45 Ports : 8
- 100/1000Base-SX/LX SFP Port : 2
- Console Port for CLI Management : 1

### Standard

- IEEE 802.3 - 10BaseT
- IEEE 802.3u - 100BaseTX
- IEEE 802.3ab - 1000BaseT
- IEEE 802.3z - 1000BaseSX/LX
- IEEE 802.3az - Energy Efficient Ethernet (EEE)
- IEEE 802.3x - Flow Control
- IEEE 802.1Q - VLAN
- IEEE 802.1v - 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

### 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

### System Performance

- Packet Buffer : 4Mbits
- MAC Address Table Size : 8K
- Switching Capacity : 20Gbps
- Forwarding Rate : 14.88Mpps

### 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 : Voice VLAN with OUI
- Link Aggregation :
  - IEEE 802.3ad with LACP
  - Static Trunk
  - Max. LACP Link Aggregation Group : 5
  - 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

## 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
- IPv6 Configuration
- Port Mirroring: One to One or Many to One
- Virtual Stacking

## 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

## Mechanical

- Power Input : 100~240VAC
- Dimension (HxWxD) : 44 x 330 x 210 mm
- Max. System Power Consumption : 12 W
- LED : Power, Link/Act, SFP
- Operating Temperature : 0~45°C
- Storage Temperature : -20~80°C
- Operating Humidity : 5~90%  
(non-condensing)
- Weight : 2.2 KG
- Certification : CE, FCC Class A; VCCI Class A,  
UL (UL60950-1)