



- 8-port 100/1000/2.5G Base-T PoE + 2-port 10G SFP+
- IEEE 802.3at/af PoE, up to 30W per port
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- PD Alive Check

8-Port 100/1000/2.5G Base-T PoE and 2-Port 10G SFP+ Layer 2 Full Management Switch

Introduction

INEO-MGM0820P is 8-port 100/1000/2.5G Base-T + 2-port 10G SFP and L2 Full Management Network Switch that is designed for medium or large network environment to strengthen its network connection. The switch supports 80G non-blocking switch fabric, its eight 2.5G ports and two 10G ports can transmit and receive data traffic without any loss. The EEE feature reduces the power consumption when there is no traffic forwarding even port is still connected. The 10G uplink port design is available and important for high bandwidth uplink request when cascaded with other switch. The switch also supports Layer 2 + full management software features. These features are powerful to provide network control, management, monitor and security feature requests. With rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

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

This product 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. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

IEEE 802.3bz NBASE-T 2.5G Ports

Based on the existing Gigabit Ethernet and 10 Gigabit Ethernet standards, all 8 of INEO-MGM0820P 's RJ45 ports' transmitting speed can reach 2.5G with CAT-5E cables, far exceeding the 2.5 Gigabit transmitting speed that is common seen in other switches.

2 slots for 10 Gigabit SFP+

The switch equips with 2 slots 10G SFP+ as the uplink ports, the 10G uplink design provides an excellent solution for expanding your network from 1G to 10G. By 10G speed, this product provides high flexibility and high bandwidth connectivity to another 10G switch or the Servers, Workstations and other attached devices which support 10G interface. The user can also aggregate the 10G ports as Trunk group to enlarge the bandwidth.

Full Layer 2+ Management Features

The switch 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-MGM0820P supports advanced security features. For switch management, there are secured HTTPS and SSH, the login password, configuration packets are secured. The port binding allows binding 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-MGM0820P will detect a network PoE powered device (for example, an IP CAM) with a set of IP address periodically. If the switch doesn't get any replies from the network PoE powered device, INEO-MGM0820P 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

Interface

- 100/1000/2.5G Base RJ45 Ports : 8
- 1G/10G Base-X SFP+ Port : 2
- Console Port for CLI Management : 1

PoE Features

- IEEE 802.3 af/at
- Number of PSE Ports : 8
- Max. Power Budget : 240W
- Max. System Power Consumption: 50W
- External/Internal Power : 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
 - Priority Setting Per Port
 - Overloading Protection

System Performance

- MAC Address Table Size : 32K
- Buffer Memory : 16Mb
- Switching Capacity : 80Gbps
- Forwarding Rate : 59.52Mpps

QoS Features

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

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
- Link Aggregation
 - IEEE 802.3ad with LACP
 - Static Trunk
 - Max. LACP Link Aggregation Group : 5
- IGMP Snooping
 - IGMP Snooping v1/v2/v3
 - IPv6 MLD Snooping
 - Querier, Immediate Leave
- Storm Control (Broadcast/Multi-cast/Un-known Unicast)
- Static Route : Support up to 16 static routes
- DHCP Server by VLAN
- Jumbo Frame Support : 9.6KB

Standard

- IEEE 802.3 – 10BaseT
- IEEE 802.3u – 100BaseTX
- IEEE 802.3ab – 1000BaseT
- IEEE 802.3z – 1000BaseSX/LX
- IEEE 802.3ae – 10GBASE Ethernet
- IEEE 802.3bz – NBASE-T
- 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

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) : Authentication/Accounting
- TACACS+ : Authentication
- 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
- Operating Temperature : 0~45°C
- Storage Temperature : -20~85°C
- Operating Humidity : 5~90% (non-condensing)
- Weight: 4.8 KG
- Certification : FCC Class A, CE mark, Commercial, VCCI Class A IEC 61000-4-5(Surge) Lv.5: Line to Earth 6kV

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 : Many to One

