



LM-802FMGP-IL2 / LMI-HY2008GVP-SFP

DATASHEET

Industrial Managed Switches 8*10/100/1000 Base-T

The **LM-802FMGP-IL2 / LMI-HY2008GVP-SFP** is a full Gigabit L2+ managed industrial PoE Ethernet fiber switch featuring 810/100/1000Base-T PoE ports with up to 30W per port (total 120W) and 2100/1000Base-X SFP fiber ports. It intelligently delivers power to devices such as wireless APs, IP cameras, VoIP devices, and sensors while supporting L2+ network management, IPv4 static routing, ACL/QoS policies, rich VLAN functions, and multiple redundancy protocols including STP/RSTP/MSTP and ERPS (<20ms convergence).



Product Overview

The **LM-802FMGP-IL2 / LMI-HY2008GVP-SFP** is a full Gigabit L2+ managed industrial PoE Ethernet fiber switch independently developed by . It has 810/100/1000Base-T PoE ports. Ports 1-8 can support IEEE802.3af/at, with a maximum power of 30W per port and a total power of 120W. It also has 2100/1000Base-X SFP fiber ports.

It can automatically detect and recognize power-compliant devices that meet the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless APs, webcams, VoIP devices, and sensors through the network cable.

The **LM-802FMGP-IL2 / LMI-HY2008GVP-SFP** has L2+ network management functions, supports IPv4 static route forwarding, and features a complete security protection mechanism, ACL/QoS policies, and rich VLAN functions, making it easy to manage and maintain. It supports multiple network redundancy protocols including STP/RSTP/MSTP (<50ms), and the ERPS ring network function (convergence time <20ms) to improve link backup and network reliability, ensuring uninterrupted communication for critical applications.

According to actual application needs, routing address management, port management, port flow control, VLAN division, IGMP, security policy, and other application service configurations are performed through Web, CLI, SNMP, Telnet, and other network management methods. The shell is made of aluminum alloy, providing excellent industrial field environmental adaptability, including mechanical stability, climate environment adaptability, and electromagnetic environment adaptability. The protection level is IP40, supporting dual redundant power supplies, low power consumption, and fanless operation. It comes with a 3-year warranty.

GIGABIT ACCESS, SFP FIBER PORT UPLINK, INTEGRATED BYPASS FUNCTION

- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support physical single-mode single fiber optical path (Bypass) function, pure hardware switching, short switching time, does not affect the data transmission rate and improves the stability of the network system.

NETWORK MANAGEMENT AND FAST RING FUNCTION

- STP/RSTP/MSTP/ERPS.
- Static and dynamic aggregation.
- IEEE802.1Q VLAN, flexible VLAN division, Access, Trunk and Hybrid
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- IGMP Snooping V1/V2/V3 meets multi-terminal high-definition video surveillance and video conference access requirements.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.

SECURITY

- 802.1X authentication.
- Port isolation, storm control.
- IP-MAC-VLAN-Port binding.

STABLE AND RELIABLE

- CCC, CE, FCC, RoHS.
- Low power consumption, No fan, aluminum shell.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A.

EASY OPERATION AND MAINTENANCE MANAGEMENT

- HTTPS, SSLV3, and SSHV1/V2.
- RMON, system log, LLDP, and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.
- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

SPECIFICATION

MODEL

LM-802FMGP-IL2 / LMI-HY2008GVP-SFP

Network Management Features

Other Features

DNS Client DHCP
Relay DHCP Client
DHCP Snooping
DHCP Option 82
SNTP Client
UDLD

PoE management

Soft-Reboot PoE Non-stop Total PoE
Per port PoE function enable/disable PoE
classification detection
PD alive check
PoE schedule

Maintenance

Cable Diagnostics
Ping
SFP DDM(Digital Diagnostics Monitoring) Thermal protection
System log (Local and Remote)
Memory and CPU Monitoring

L2+ functions

IPV4 Equal Cost Routing
NG protocol, maximum 1000 entries
ARP protocol, maximum 1000 entries
Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6
IPV4/IPV6 VRRP, the maximum group is 255
IPV4/IPV6 VLANIF interface supports up to 128
IPV4/IPV6 static route/default route supports up to 128 entries
L3 network management function, IPV4/IPV6 dual-stack management
Layer 3 routing and forwarding, support communication between different network segments and different VLANs

SPECIFICATION

MODEL	LM-802FMGP-IL2 / LMI-HY2008GVP-SFP
Interface Characteristics	
Fixed Port	8* 10/ 100/ 1000Base-T PoE ports 2* 100/ 1000Base-X uplink SFP slot ports 1*RS232 console port
Ethernet Port	Port 1-8 support 10/ 100/ 1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)
SFP Slot Port	Gigabit SFP optical fiber interface, default no include optical modules (Only supports single-mode single fiber optical module. LC)
Wavelength/Distance	multimode: 850nm 0~550M,1310nm 0~2KM single mode: 1310nm 0~40KM , 1550nm 0~120KM
Chip Parameter	
Network Management Type	L2+
Ring Network	Supports ERPS ring network function, with a maximum number of rings of 5 and a convergence time of<20ms

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Certification & Warranty	
Lightning Protection	<p>Lightning protection: 6KV 8/20us, Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~ 1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable: ±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/ DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m , 1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4- 10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4- 12/ 18(shockwave):CM 2.5kV,DM 1kV</p> <p>IEC61000-4- 16(common-mode transmission):30V; 300V, 1s</p> <p>FCC Part 15/CISPR22(EN55022):Class B</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration),</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	<p>CCC, CE mark, commercial, CE/LVD EN62368- 1, FCC Part 15 Class B, ROHS</p>

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Physical Parameter	
Operation TEMP/ Humidity	-40~+75°C;5%~90% RH Non condensing
Storage TEMP/ Humidity	-40~+85°C;5%~95% RH Non condensing
Dimension (L*W*H)	172mm* 145mm*55mm
Installation	Desktop, DIN rail
L2 functions	
Port configuration	Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor Traffic statistics
Link Aggregation	Static link aggregation LACP Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
QOS	port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port

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Network Management Features

VLAN

4094 Active VLANs
4094 VID
802.1Q Tag VLAN
Port VLAN
Protocol VLAN
MAC VLAN
Voice VLAN
802.1ad Q-in-Q tunneling Private
VLAN (Protected port) GARP/GVRP

ACL

256ACLs
L2, L3 e L4
Time-based ACL

Spanning tree

802.1D Spanning Tree Protocol (STP)
802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple
Spanning Tree Protocol (MSTP) Loop Guard
Root Guard
TC-BPDU Guard
BPDU Guard BPDU
Filter

Multicast

256 groups
IGMP v1/v2/v3 Snooping, Fast Leave MLD
Snooping
Multicast VLAN