



## LM-2404FMGP-L2

DATASHEET

# Managed PoE Switch 24-port 10/100/1000 PoE Base-T

The LM-2404FMGP-L2 is a full Gigabit L2 managed PoE Ethernet switch featuring 24 × 10/100/1000 Base-T PoE ports with up to 30W per port (total 370W) and 4 × 10/100/1000 Base-T RJ45 / 4×100/1000 Base-X uplink SFP fiber ports. It intelligently delivers power to devices such as wireless APs, webcams, 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 (<50ms).



# PRODUCT INTRODUCTION

## Product Overview

**The LM-2404FMGP-L2 is a full Gigabit L2 managed PoE Ethernet switch independently developed by Lanmus. It has 24 × 10/100/1000 Base-T PoE ports. Ports 1-24 can support IEEE802.3af/at, with a maximum power of 30W per port and a total power of 450W.**

It also has 4 × 10/100/1000 Base-T RJ45 and 4 × 100/1000 Base-X uplink Combo 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-2404FMGP-L2 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 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 steel alloy, which provides excellent field environmental adaptability, including mechanical stability, climate environment adaptability, and electromagnetic environment adaptability. It comes with a 3-year warranty.

**This switch is suitable for scenarios such as intelligent transportation, rail transit, electric power industry, mining, petroleum, shipping, metallurgy, and green energy construction, helping to establish a cost-effective, stable, and reliable communication network.**

## Highlight Features

### 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.

# LM-2404FMGP-L2

## Stable And Reliable

- CE, 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.

## One-Stop Remote Control & 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-2404FMGP-L2                                                                                                                      |
| INTERFACE CHARACTERISTICS |                                                                                                                                     |
| Fixed Port                | 24 * 10/100/1000 Base-T PoE ports<br>4 * Combo(10/100/1000 Base-T+100/1000 Base-X)<br>1 * RS232 console ports                       |
| Ethernet Port             | Port 1-24 support 10/100/1000 Base-T<br>auto-sensing, full/half duplex<br>MDI/MDI-X self-adaption                                   |
| Twisted Pair Transmission | 10 BASE-T: Cat3,4,5 UTP(≤100 meters)<br>100 BASE-TX: Cat5 or later UTP(≤100 meters)<br>1000 BASE-T: Cat5e or later UTP(≤100 meters) |
| SFP Slot Port             | Gigabit SFP optical fiber interface, default no include optical modules.                                                            |

## SPECIFICATION

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|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL                     | LM-2404FMGP-L2                                                                                                                                                                                                                                         |
| INTERFACE CHARACTERISTICS |                                                                                                                                                                                                                                                        |
| Wavelength/ Distance      | multimode: 850nm 0~550M,1310nm 0~2KM<br>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 11 and a convergence time of <20ms                                                                                                                                              |
| Network Protocol          | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100BaseTX<br>IEEE802.3ab 1000Base-X, IEEE802.3z 1000Base-X, IEEE802.3x                                                                                                                             |
| Forwarding Mode           | Store and Forward(Full Wire Speed)                                                                                                                                                                                                                     |
| Switching Capacity        | 56Gbps                                                                                                                                                                                                                                                 |
| MAC                       | 8K                                                                                                                                                                                                                                                     |
| LED Indicator             | <ul style="list-style-type: none"> <li>• Power Indicator Light P : 1 Green</li> <li>• Fiber Indicator Light F : 1 Green (Link,SDFED)</li> <li>• Power Indicator Light P : 1 Green</li> <li>• Fiber Indicator Light F : 1 Green (Link,SDFED)</li> </ul> |
| Reset                     | Yes, Press and hold the reset switch for 5s and release it to restore the factory settings                                                                                                                                                             |
| POE CHARACTERISTICS       |                                                                                                                                                                                                                                                        |
| Power supply              | AC:100-240V50/60Hz)                                                                                                                                                                                                                                    |
| PoE power supply method   | Supports 1,2+, 3,6-power supply                                                                                                                                                                                                                        |
| PoE output power          | Each port has a power supply of 15.4w and a maximum power of 30w per port total power of 370w                                                                                                                                                          |

## SPECIFICATION

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| MODEL                     | LM-2404FMGP-L2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CERTIFICATION & WARRANTY  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Lightning Protection      | <p>Lightning protection: 6KV 8/20us,<br/> Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge, ±15kV air discharge IEC61000-4-3(RS): 10V/m(80~ 1000MHz)<br/> IEC61000-4-4(EFT): power cable:±4kV; data cable: ±2kV<br/> IEC61000-4-5(Surge): power cable:CM±4kV/ DM±2kV; data cable: ±4kV IEC61000-4-6(radio frequency transmission): 10V(150kHz~80MHz)<br/> IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m, 1s to 3s<br/> IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz<br/> IEC61000-4- 12/18 (shockwave):CM 2.5kV,DM 1kV<br/> IEC61000-4- 16(common-mode transmission):30V; 300V, 1s FCC Part 15/CISPR22(EN55022):Class B<br/> IEC61000-6-2(Common Standard)</p> |
| Mechanical Properties     | <p>IEC60068-2-6 (anti vibration),<br/> IEC60068-2-27 (anti shock)<br/> IEC60068-2-32 (free fall)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Certification             | CE mark, commercial, CE/LVD EN62368- 1, RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PHYSICAL PARAMETER        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Storage TEMP / Humidity   | -20~+75°C;5%~95% RH Non condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operation TEMP / Humidity | -20~+55°C;5%~90% RH Non condens                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dimension                 | 440mm* 300mm*44mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Installation              | Desktop, DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| L2 FUNCTIONS              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Port Configuration        | <p>Auto-negotiation<br/> Flow Control, Port Mirror: TX/RX/BOTH; Many-to-1 monitor<br/> Traffic statistics</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## SPECIFICATION

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|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL            | LM-2404FMGP-L2                                                                                                                                                                                            |
| L2 FUNCTIONS     |                                                                                                                                                                                                           |
| Link Aggregation | Static link aggregation<br>LACP<br>Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP                                                                                     |
| MAC Table        | Aging Time<br>Static MAC address<br>Dynamic MAC address management                                                                                                                                        |
| VLAN             | 4094 Active VLANs<br>4094 VID<br>802.1Q Tag VLAN<br>Port VLAN<br>Protocol VLAN<br>MAC VLAN<br>Voice VLAN<br>802.1ad Q-in-Q tunneling Private<br>VLAN (Protected port) GARP/GVRP                           |
| ACL              | 256ACLs<br>L2+, L2+ e L4<br>Time-based ACL                                                                                                                                                                |
| Spanning Tree    | 802.1D Spanning Tree Protocol (STP)<br>802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP)<br>Loop Guard<br>Root Guard<br>TC-BPDU Guard<br>BPDU Guard<br>BPDU Filter |
| Ring Protection  | <20ms G.8032 ERPS Ring                                                                                                                                                                                    |
| Multicast        | 256 groups<br>IGMP v1/v2/v3 Snooping, Fast Leave MLD<br>Snooping<br>Multicast VLAN                                                                                                                        |

## SPECIFICATION

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| MODEL             | LM-2404FMGP-L2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| L2 functions      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| QoS               | port-based<br>CoS 802.1p-based CoS<br>DSCP-based<br>Scheduling algorithms SP, WRR, SP+WRR<br>Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port                                                                                                                                                                                                                                                                                                                                     |
| DHCP              | SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups<br>WEB (HTTP/HTTPS)<br>CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTP Configuration<br>Backup/Reload<br>Dual Firmware<br>LLDP                                                                                                                                                                                                                                                                                                          |
| Security Features | Port Security MAC address filter<br>ARP Association (Manual, ARP scanning, DHCP snooping) ARP Protection<br>DoS (Denial of Service)<br>Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type;<br>802.1x Authentication (port-based e MAC-based)<br>TACACS/TACACS+ Authentication<br>RADIUS Authentication<br>DHCP Filter<br>Guest VLAN<br>SSLv2/SSLv3/TLSv1<br>SSHv1/SSHv2<br>Restriction of WEB access based on: IP Address, And. MAC and Port; Port Isolation Loopback detection |
| Other Features    | DNS Client DHCP<br>Relay DHCP Client<br>DHCP Snooping<br>DHCP Option 82<br>SNTP Client<br>UDLD                                                                                                                                                                                                                                                                                                                                                                                                                    |

## SPECIFICATION

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| MODEL          | LM-2404FMGP-L2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| L2 functions   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PoE management | Soft-Reboot PoE Non-stop Total PoE<br>Per port PoE function enable/disable PoE<br>classification detection<br>PoE schedule                                                                                                                                                                                                                                                                                                                                                                              |
| Maintenance    | Cable Diagnostics<br>Ping<br>SFP DDM(Digital Diagnostics Monitoring) Thermal<br>protection<br>System log (Local and Remote)<br>Memory and CPU Monitoring                                                                                                                                                                                                                                                                                                                                                |
| L2 functions   | IPV4 Equal Cost Routing<br>NG protocol, maximum 1000 entries<br>ARP protocol, maximum 1000 entries<br>Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6<br>IPV4/IPV6 VRRP, the maximum group is 255<br>IPV4/IPV6 VLANIF interface supports up to 128<br>IPV4/IPV6 static route/default route supports up to 128 entries<br>L2+ network management function, IPV4/IPV6 dual-stack<br>management<br>Layer 3 routing and forwarding, support communication between<br>different network segments and different VLANs |



# Managed Switch

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