

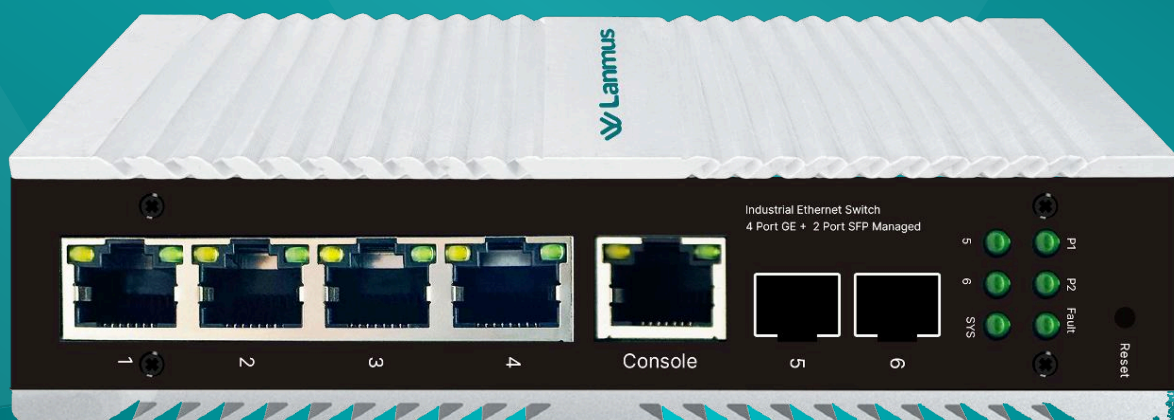


LM402FMGP-IL2

DATASHEET

6-port 10/100M/1000M L2 Managed Industrial Ethernet Switch

The LM402FMGP-IL2 is a full Gigabit L2 managed industrial Ethernet switch with 4 * RJ45 ports and 2 * SFP fiber ports, delivering reliable wire-speed performance. It features advanced L2 management, VLAN, ACL/QoS, and redundancy protocols like STP/RSTP/MSTP and ERPS for high network reliability. Built with an IP40 aluminum casing, dual power supply, and fanless design, it is ideal for harsh industrial environments.



Product Introduction

6-port 10/100M/1000M

L2 Managed Industrial Ethernet Switch

Product Overview

The LM402FMGP-IL2 is a full Gigabit L2 managed industrial Ethernet switch. It has 4 * 10/100/1000 Base-T RJ45 ports and 2 * 100/1000 Base-X SFP fiber ports. Each port can support wire-speed forwarding.

The LM402FMGP-IL2 has L2 network management function, complete security protection mechanism, ACL/QoS policy and rich VLAN functions, easy to manage and maintain. Support multiple network redundancy protocols STP/RSTP/MSTP(<50ms), support ERPS ring network function (convergence time <20ms) to improve link backup and network reliability to ensure uninterrupted communication of important 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, which has excellent industrial field environmental adaptability (including mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.), protection level is IP40, support dual redundant power supply, low power consumption and no fan, 3-year warranty.

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

Highlight Features

Gigabit access, 1G Fiber uplink

- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

Product Introduction

Highlight Features

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

- 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	LM402FMGP-IL2
INTERFACE CHARACTERISTICS	
Fixed Port	4 * 10/ 100/1000 Base-T RJ45 ports 2 * 100/1000 Base-X SFP ports 1 * console port
Ethernet Port	Port 1-4 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
Wavelength/Distance	multimode: 850nm 0~550M,1310nm 0~2KM single mode: 1310nm 0~40KM , 1550nm 0~120KM
CHIP PARAMETER	
Network Management Type	L2
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-X, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Exchange capacity	12Gbps
Packet forwarding rate	8.92Mpps
Flash	16 MB
RAM	128 MB
MAC	8K

SPECIFICATION

MODEL	LM402FMGP-IL2
CHIP PARAMETER	
LED Indicator	Power Indicator Light PWR : 1 Green System indicator RUN : 1 Green Fiber Indicator Light 5-6 : 1 Green (Link,SDFED) On the RJ45 seat 1-4 Yellow:Indicate PoE 1-4 Green: Indicates network working status
Reset	Press and hold the reset switch for 10s and release it to restore the factory settings
POWER	
Power Supply	DC12-52V
CERTIFICATION & WARRANTY	
Lightning Protection	Lightning protection: 6KV 8/20us, Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~ 1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable: ±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m , 1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4- 10(damped oscillation):30A/m 1MHz IEC61000-4- 12/ 18(shockwave):CM 2.5kV,DM 1kV IEC61000-4- 16(common-mode transmission):30V; 300V, 1s FCC Part 15/CISPR22(EN55022):Class B IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)

SPECIFICATION

MODEL	LM402FMGP-IL2
CERTIFICATION & WARRANTY	
Certification	CE mark, commercial, CE/LVD EN62368- 1, RoHS
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)	142mm* 101mm*42mm
Installation	Desktop, DIN rail
NETWORK MANAGEMENT FEATURES	
Port configuration	Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor Traffic statistics
Link Aggregation	Static link aggregation Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
VLAN	4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN
Spanning Tree Protocol	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Root Guard TC-BPDU Guard BPDU Guard BPDU Filter

SPECIFICATION

MODEL	LM402FMGP-IL2
NETWORK MANAGEMENT FEATURES	
Multicast	IGMP v1/v2/v3 Snooping
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
DHCP	SNMP v1/v2c with Full Private MIBs RMON 4 groups WEB (HTTP) upgrade via web Configuration Backup/Reload
Maintenance	Cable Diagnostics



Managed Industrial Switch

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