



# LM-S7026-24X2H

# DATASHEET

# L3 Managed PoE Ethernet Switch 24 \* 1000M Base-X SFP/10GE SFP+

The LM-S7026-24X2H is a Layer 3 switch with high-performance capabilities, offering full 10G access, 40G and 100G uplink core routing. It is designed to meet the high-density and high-bandwidth requirements of next-generation enterprise networks, data centers and metropolitan area networks.



# PRODUCT INTRODUCTION

## Product Overview

The LM-S7026-24X2H is a high-performance Layer 3 Managed Ethernet Switch purpose-built to address the increasing demands of modern high-density and high-bandwidth network environments.

Designed for enterprise core networks, data centers, service providers and metropolitan area networks (MANs). It provides powerful 10G access and ultra-high-speed 40G/100G uplink core routing capabilities. This enables efficient aggregation, fast routing and resilient connectivity in complex large-scale infrastructures.

Built on a carrier-grade hardware architecture and powered by a Linux-based dual-stack (IPv4/IPv6) operating system. The LM-S7026-24X2H ensures exceptional reliability, scalability and service flexibility.

It delivers comprehensive Layer 2 and Layer 3 switching capabilities enhanced with MPLS, VXLAN, OAM/APS and hardware-based Net Flow to support diversified business services, data center virtualization and precise network visibility. With high-precision clock synchronization, it is ideal for timing-sensitive and mission-critical applications such industrial automation, telecom and cloud computing environments.

Equipped with 24×1000M Base-X SFP/10GE SFP+ ports and 2×40G/100G QSFP28 uplink interfaces, this switch enables flexible deployment across various network layers from the aggregation or access layer in data centers to the core layer in enterprise or campus networks. Its modular dual power supplies (AC/DC) and redundant fan units provide exceptional system reliability, ensuring continuous, stable operation even in demanding environments.

**The elastic stacking technology allows multiple LM-S7026-24X2H units to be virtualized into a single logical device. This not only enhances switching capacity and port scalability but also simplifies network management, maintenance and upgrades.**

## Product Overview

In summary, the LM-S7026-24X2H Layer 3 Managed Ethernet Switch combines superior performance, flexible scalability, advanced network intelligence and robust security into a compact energy-efficient platform. It is the optimal choice for organizations looking to build reliable, future-ready and high-capacity networks that support the accelerating pace of digital innovation, virtualization and cloud-based transformation.

## DEVICE BRIEF INFORMATION



## LM-S7026-24X2H

- 24 \* 1000M Base-X SFP/10GE SFP+
- 2 \* 40G QSFP ports/2 \* 100G QSFP28
- Two modular Fans
- Size: 440×320×44mm 19" Rack-mount
- AC: 100~240V; 47/63Hz



# Key Features

## Equipment Stability

- Support IPv4/IPv6 dual protocol stack platform based on Linux operating system
- Support multiple link redundancy and network redundancy protocols such as STP/ RSTP/MSTP/ERPS/ LACP

## Carrier-level equipment stability

- Based on Linux operating system, support IPv4/IPv6 dual protocol stack platform
- Support multiple link redundancy and network redundancy protocols such as STP/RSTP/MSTP/ERPS/ LACP

## Stackable

- Support Combine the processing power of multiple switches into a single logical device.
- Support When a switch in the stack system fails, traffic can be automatically switched to other switches, network availability and redundancy.
- Support Stacking simplifies the management process. Administrators only need to manage one logical device.

## Perfect safety mechanism

- Support ACL security filtering mechanism, which can provide security control functions based on MAC, IP, L4 port
- Support ARP attack automatic protection and user blocking functions
- Support DHCP attack automatic protection based on Mac Address and user blocking functions
- Support DHCP-snooping/IP-source-Guard/802.1X and other security features
- Support link protection functions such as BFD, FlexLink, LACP
- Support remote loop detection function
- Support remote user authentication based on TACACSs+, Radius and Local user authentication

## Key Features

### Powerful QoS capabilities

- Support port speed and flow speed limit function
- Support classification based on service flow and QoS flow control function
- Support queue scheduling algorithms such as SP/WRR/SP+WRR
- Support port-based and service flow-based mirroring functions

### Enhanced multi-service capabilities

- Support DHCP Server and DHCP Relay

### Rich routing protocol

- Support static route
- Support dynamic route such as RIP, OSPF, BGP
- Support IPV4/IPV6 dual protocol stack, support RIPng, OSPFv3

### Simple and easy-to-use network management function

- Support CLI based on RS232 serial port, Telnet and SSHv2
- Support WEB-based configure operation management, support SNMP V1/V2/V3
- Support remote upgrade or equipment through FTP and TFTP

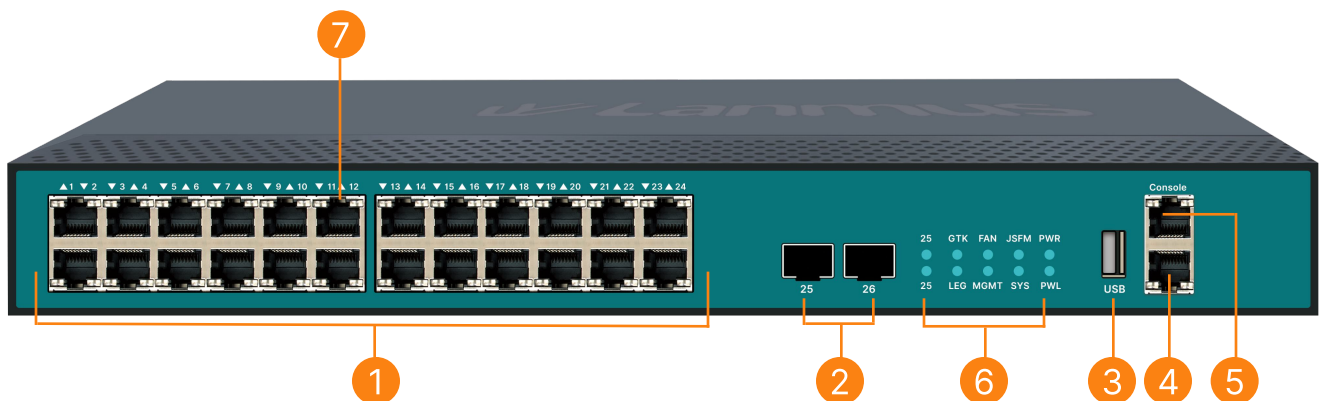
## Hardware Specifications

| Attributes        | LM-S7026-24X2H                                          |
|-------------------|---------------------------------------------------------|
| Port              | 24 * 1000M Base-X SFP/10GE SFP+<br>2 * 40G /100G QSFP28 |
| Exchange Capacity | 880Gbps                                                 |

# Hardware Specifications

| Attributes             | LM-S7026-24X2H                                                                                               |
|------------------------|--------------------------------------------------------------------------------------------------------------|
| Port                   | 24 * 1000M Base-X SFP/10GE SFP+<br>2 * 40G /100G QSFP28                                                      |
| Exchange Capacity      | 880Gbps                                                                                                      |
| Packet Forwarding Rate | 595.24Mpps                                                                                                   |
| Memory and Storage     | Memory: 1GB; Storage: 8GB                                                                                    |
| MAC AddressS           | 32K                                                                                                          |
| Packet Buffer          | 72Mbit                                                                                                       |
| Power                  | AC: 100~240V; 47/63Hz<br>DC: -40~-60V                                                                        |
| Power Consumption      | Idle ≤33W<br>Full load: ≤60W                                                                                 |
| Weight                 | ≤8.6kg (AC+AC)                                                                                               |
| Dimensions             | 440×390×44 (mm*mm*mm)                                                                                        |
| Environment            | Working Temperature : -10℃~55℃<br>Storge temperature : -40℃~70℃<br>Relative Humidity: 5%~95%, non-condensing |

## Panel view



# Panel view

- 1

24 \* 1G/10G SFP + Port
- 2

2 \* 40G/100G QSFP28 Port
- 3

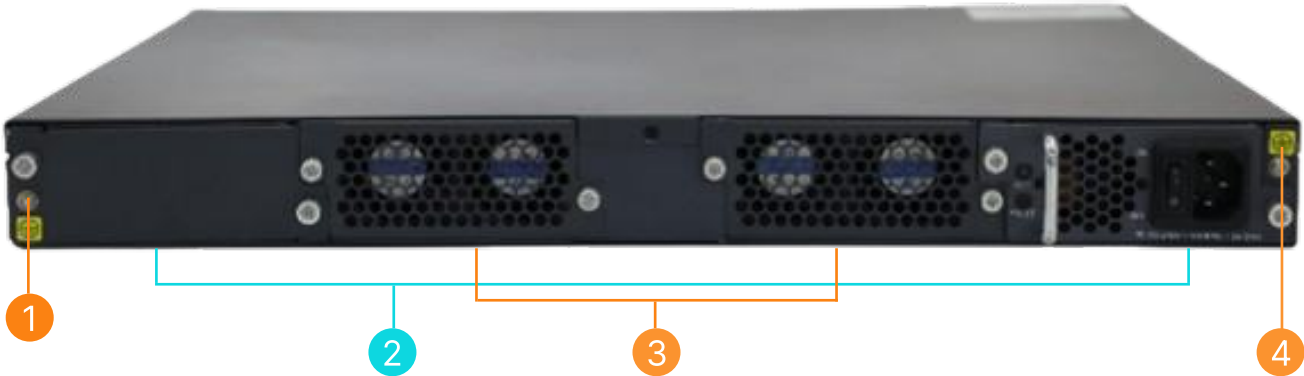
USB
- 4

Out-Band MGMT Port
- 5

CONSOLE Port
- 6

LED
- 8

1GE/10GE Port LED



- 1

GND
- 2

Puggable Redundant Power Supply 1+1
- 3

Pluggable FAN
- 4

GND

| Label        | Connector Type | Connector Description                                              |
|--------------|----------------|--------------------------------------------------------------------|
| 40G/100G 1-2 | QSFP28         | Connect to external uplink equipment                               |
| 1G/10GE 1-24 | SFP+           | Connect to external uplink equipment                               |
| USB          | USB2.0/3.2     | Connecting peripherals for uploading and downloading configuration |
| CONSOLE      | RJ45           | The software debug port                                            |
| MGMT         | RJ45           | The out-band management port                                       |

# LED Indicator

| LEDs/ Buttons | Colors        | Function              | Description |                                                        |
|---------------|---------------|-----------------------|-------------|--------------------------------------------------------|
| PWR           | Green         | Power Status          | ON          | The AC/DC power module is normal.(right)               |
|               |               |                       | OFF         | The AC/DC power module faulty or unavailable           |
| PWL           | Green         | Power Status          | ON          | The AC/DC power module is normal.(left)                |
|               |               |                       | OFF         | The AC/DC power module faulty or unavailable           |
| ALARM         | Red           | Port Status           | ON          | Critical alarms are reported for the card.             |
|               |               |                       | OFF         | No critical alarm is reported for the card.            |
| SYS           | Green         | System running status | GREEN OFF   | The device is not running or power off.                |
|               |               |                       | GREEN FLASH | The device is running normally.                        |
| FAN           | Green/ Orange | Fan running status    | ON          | FAN is running normally.                               |
|               |               |                       | OFF         | FAN is running abnormally.                             |
| MGMT          | Green         | Port status           | ON          | The link is properly connected (link up) and in action |
|               |               |                       | OFF         | The link is interrupted (link down).                   |
| STK           | Green         | Port status           | ON          | Enable Stack                                           |
|               |               |                       | OFF         | Disable Stack                                          |
| USB           | Green         | Power status          | ON          | Insert flash (Fat32)                                   |
|               |               |                       | OFF         | No Insert flash (Fat32)                                |

## LED Indicator

| LEDs/ Buttons | Colors | Function    | Description |                                                     |
|---------------|--------|-------------|-------------|-----------------------------------------------------|
| 26            | Green  | Port status | ON          | The link is properly connected (link up) and action |
|               |        |             | OFF         | The link is interrupted (link down).                |
| 25            | Green  | Port status | ON          | The link is properly connected (link up) and action |
|               |        |             | OFF         | The link is interrupted (link down).                |
| 1G/10G Port   | Green  | Port status | ON          | The link is properly connected (link up) and action |
|               |        |             | OFF         | The link is interrupted (link down).                |

## Plug-In Units

### Power Supply Unit (PSU)

On the rear panel of the switch, there are two slots for Power Supply Unit (PSU). The mounting slots can be equipped with DC or AC type PSUs. The different type of PSUs can be equipped into the switch. The below shows AC and DC type of power supply modules Two PSUs for supplying redundancy. Dual PSUs have to be installed at a system.

The power supply unit (PSU) feeds the proper power voltage to the base board of switch. Two PSUs are possible to be mounted into rear side of the chassis and it can be DC or AC type of PSU. Therefore, you need to decide to choose proper power supply unit according to installation environment.

The power connector (AC and DC type) for main power supply is located on the rear panel of the PSU. For redundant power feeding, the second PSU has to be used.

The below shows the electrical characteristics of the switch :

# Plug-In Units

| Characteristic                 | LM-S7026-24X2H                      |
|--------------------------------|-------------------------------------|
| Nominal AC/DC power supply     | AC: 100~240V; 47/63Hz<br>DC: 36-75V |
| AC Rated power of power supply | 100W                                |
| DC Rated power of power supply | 100W                                |



# FAN Unit

The switch provides 2 fan unit slots on the rear panel. This plug-in unit internally consists of 2 fans. User can insert fan unit to a fan slot by slowly adjusting them to fit into the slot guidance. The air flows from the front side inlet to the rear side outlet.



| Characteristic | LM-S7026-24X2H          |
|----------------|-------------------------|
| FAN            | 8000 RPM adjustable fan |

# Software Specifications

| Characteristic    | LM-S7026-24X2H                                                                                                                                                                                                                                                                                                                                     |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VXLAN             | Support VXLAN uses MAC in UDP encapsulation.<br>Support VMS can move between different Layer 2 network domains.<br>Support VNI is used to isolate different virtual networks to ensure that network traffic of different tenants is isolated .<br>Support Enable virtual machine packets to communicate across different subnets and data centers. |
| MAC               | Support static MAC address setting<br>Support black hole MAC address filtering<br>Support port MAC address limit<br>Automatic learning and aging of MAC addresses                                                                                                                                                                                  |
| ARP               | Static and dynamic ARP entries<br>Aging of ARP entries<br>ARP-Proxy                                                                                                                                                                                                                                                                                |
| Port Control      | Support two-way bandwidth control<br>Support port storm suppression<br>Support 9K Jumbo ultra-long frame forwarding                                                                                                                                                                                                                                |
| Port Aggregation  | Support static link aggregation<br>Support dynamic LACP<br>Each aggregation group supports a maximum of 8 ports<br>LAG load balance (SIP/DIP/SMAC/DMAC)                                                                                                                                                                                            |
| Mirroring         | Supports multi-port mirroring analysis<br>Service flow-based image analysis                                                                                                                                                                                                                                                                        |
| ACL               | Support standard and extended ACL<br>Support ACL policy based on time period<br>Provide MAC, IP, L4 port and port level security control functions                                                                                                                                                                                                 |
| Terminal Services | Configurations through CLI<br>Console Terminal service                                                                                                                                                                                                                                                                                             |
| Safety            | Support user hierarchical management and password protection<br>Support Radius & TACACS+ authentication<br>Support MAC address learning limit, support black hole MAC function<br>Support port isolation, Support broadcast message rate suppression, Support IP Source Guard Support ARP flood suppression and ARP spoofing protection            |

# Software Specifications

| Characteristic | LM-S7026-24X2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QoS            | <ul style="list-style-type: none"><li>Traffic classification based on COS/DSCP (simple classification)</li><li>Traffic classification based on ACL (complex classification)</li><li>Traffic classification based on inner header of the tunnel packets</li><li>Queue scheduling</li><li>Remark the priority fields (COS/DSCP) of the packet based on ACL</li><li>Traffic policing based on direction(in/out) of Port</li><li>Traffic policing based on direction(in/out) of VLAN</li><li>Traffic policing based on direction(in/out) of flow</li><li>Traffic policing based on direction(in/out) of aggregated flow</li><li>SP (Strict Priority) scheduling</li><li>WRR (Weighted Round Robin) scheduling</li><li>SP + WRR mixed scheduling</li></ul> |
| Layer 3        | <ul style="list-style-type: none"><li>Support ARP learning and aging</li><li>Support IPv4/IPv6 static route</li><li>Support dynamic route RIP/OSPF/BGP</li><li>Support IPv4/IPv6 dual-stack platform</li><li>Support VRRP, CLI, Telnet, WEB, SNMP V1/V2/V3, SSHv2 mode</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Maintenance    | <ul style="list-style-type: none"><li>Per-module Debug features</li><li>CPU usage display and alarm</li><li>Memory usage display and alarm</li><li>Device temperature, PSU, FAN, status display and alarm</li><li>User operation logs</li><li>Management of logs, alarms, and debugging information</li><li>Manual/Schedule reboot</li><li>Reboot Information logging</li><li>Ping</li><li>IPv6 Ping</li><li>Traceroute</li><li>Time configuration</li><li>Time zone</li></ul>                                                                                                                                                                                                                                                                        |
| Spanning-Tree  | <ul style="list-style-type: none"><li>Rapid Spanning-Tree Protocol</li><li>Multi-instance Spanning-Tree Protocol</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| File system    | <ul style="list-style-type: none"><li>Upload and download files through FTP or TFTP</li><li>Upload and download files through Xmodem</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# Software Specifications

| Characteristic           | LM-S7026-24X2H                                                                                                                                                                                                                                                                                                                              |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Security          | SSHv1/v2<br>RADIUS<br>TACACS+<br>Authentication<br>Accounting<br>MAC/IP ACL<br>Port/VLAN/L4-Port ACL<br>IP Source Guard<br>Limitation on MAC address learning on interface<br>Rate limit<br>CPU Traffic Limit<br>CLI/WEB/SNMP/Telnet/SSH filtering                                                                                          |
| Network Management       | DHCP Server<br>DHCP Relay<br>DHCP Snooping<br>DHCP Option60<br>DHCP Option82<br>DHCP Option66<br>DHCP Option120<br>SNTP (Simple Network Time Protocol)<br>LLDPt                                                                                                                                                                             |
| Configuration Management | Inband management interface and configuration<br>Outband management interface and configuration<br>Privileged user priority and privileged commands<br>Network management based on SNMPv1/v2c/v3<br>Public and private MIB<br>Public and private Trap<br>Configuration and management based on WEB<br>Restore factory default configuration |
| Upgrade                  | Upgrade with the local image file<br>Upgrade with the remote TFTP server<br>Online upgrade Uboot                                                                                                                                                                                                                                            |
| System Management        | Support FTP, TFTP file upload and download<br>Support SNTP<br>Support LLDP neighbor device discovery protocol<br>Support RFC1213 SNMP network management<br>Support Ping and Traceroute<br>Supports configuration management based on WEB pages                                                                                             |

# Connector Specifications

The switch provides standardized interfaces, thus facilitating rapid and trouble-free integration into the existing network infrastructures.

## Network Interfaces

The switch optical interface ports for SFP/SFP+ modules and below table is available SFP/SFP+ module list.

| Index | SFP/SFP+ Module Description                                                                                                                                                                                                                                                  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | <ul style="list-style-type: none"><li>- Wavelength: 850 nm/Distance: 550 m/Mode: Multi-mode</li><li>- Connector: LC/Data rate: 1.25Gbit/s/Core type: Dual Core</li><li>- Operating Temperature: 0°C - 70°C</li></ul>                                                         |
| 2     | <ul style="list-style-type: none"><li>- Wavelength: 1310nm / Distance: 5km / Mode: single-mode</li><li>- Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C – 70°C</li></ul>                                                  |
| 3     | <ul style="list-style-type: none"><li>- Wavelength: 1310 nm / Distance: 10 km / Mode: single-mode</li><li>- Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C – 70°C</li></ul>                                              |
| 4     | <ul style="list-style-type: none"><li>- Wavelength: 1310 nm / Distance: 15 km / Mode: single-mode</li><li>- Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C – 70°C</li></ul>                                              |
| 5     | <ul style="list-style-type: none"><li>- Wavelength: 1310 nm / Distance: 20 km / Mode: single-mode</li><li>- Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C - 70°C</li></ul>                                              |
| 6     | <ul style="list-style-type: none"><li>- Wavelength: 1310 nm / Distance: 40 km / Mode: single-mode</li><li>- Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C - 70°C</li></ul>                                              |
| 7     | <ul style="list-style-type: none"><li>- Wavelength: 850nm / Distance: 300m / Mode: Multimode</li><li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C ~ 70°C</li><li>- 10G BASE-SR (10G)</li></ul>                    |
| 8     | <ul style="list-style-type: none"><li>- Wavelength: 850nm / Distance: 300m / Mode: Multimode</li><li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C ~ 70°C</li><li>- 1000 BASE-SX (1G), 10G BASE-SR (10G)</li></ul> |

## Connector Specifications

| Index | SFP/SFP+ Module Description                                                                                                                                                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9     | <ul style="list-style-type: none"><li>- Wavelength: 1310nm / Distance: 10Km / Mode: Single mode</li><li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C ~ 70°C</li><li>- 10G BASE-LR (10G)</li></ul> |
| 10    | <ul style="list-style-type: none"><li>- Wavelength: 1550nm / Distance: 40Km / Mode: Single mode</li><li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C ~ 70°C</li><li>- 10G BASE-ER (10G)</li></ul> |
| 11    | <ul style="list-style-type: none"><li>- Wavelength: 1310nm / Distance: 70Km / Mode: Single mode</li><li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li><li>- Operating Temperature: 0°C ~ 70°C</li><li>- 10G BASE-ZR (10G)</li></ul> |
| 12    | <ul style="list-style-type: none"><li>- Wavelength: 850nm/Distance: 100m/Mode: MMF</li><li>- Connector: MMF Data rate: 100 Gbit/s/Core type: Dual Core</li><li>- Operating Temperature: 0°C ~ 70°C</li><li>100G BASE-SR4</li></ul>                           |

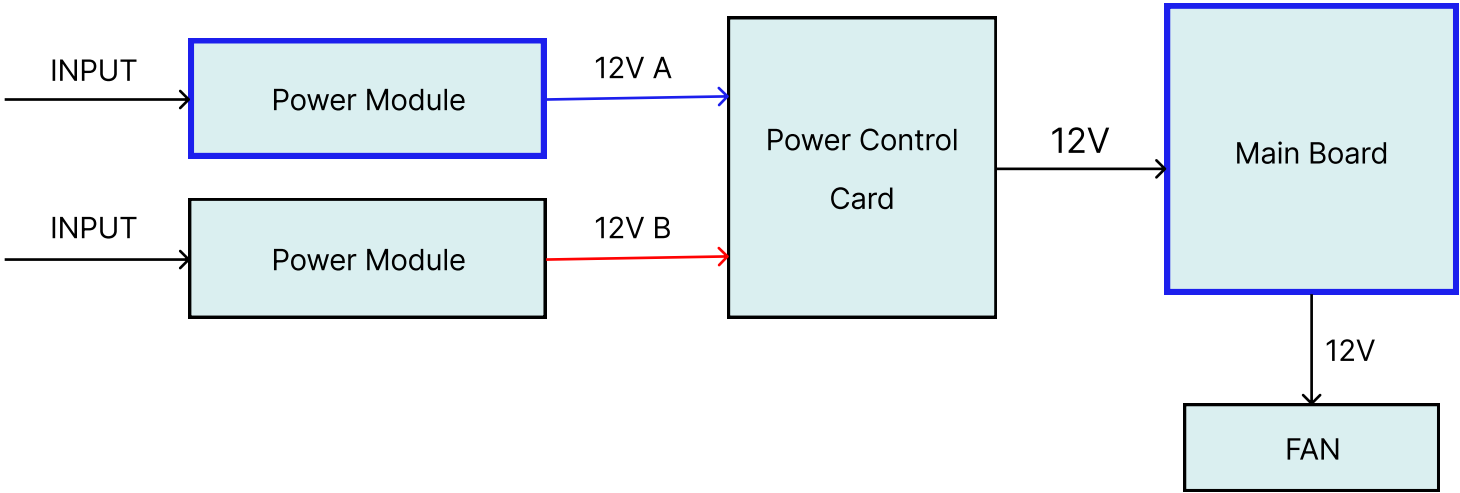
## Purchase Info

| Product Name   | Product Description                                                                          |
|----------------|----------------------------------------------------------------------------------------------|
| LM-S7026-24X2H | 24 * 1000M Base-X SFP/10GE SFP+<br>2 * 40G/100G QSFP28<br>1+1 modular redundant power supply |

# Power Supply Equipment

S5863 has the following power supply equipment:

- Support both -48V DC and 100V AC/220V AC power input.
- Provide over-current and over-voltage protection and noise filtering for DC power input.



# Software Specifications

| Characteristic | LM-S7026-24X2H                                                                                                                                                                                                           |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VLAN           | Support 4K VLAN<br>Support VLAN based on port,<br>MAC and protocol<br>Support dual Tag VLAN, Access/Trunk/Hybrid                                                                                                         |
| Ethernet       | Ethernet interface operating modes<br>Ethernet interface operating rates<br>Jumbo Frame<br>Port enable/disable<br>Port based storm-control<br>Unknow-unicast/unknow-multicast/broadcast<br>storm-control<br>Port-isolate |
| Stackable      | Support Sacking of 8 units through a single ip address.<br>Support Unified management.<br>Support Redundancy mechanism.<br>Support High speed interconnect.                                                              |



# Xtreme Switch

DATA SHEET | LM-S7026-24X2H



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