

## MIEN6024

### 24x100M Ports Rack-mount Layer 2 Managed Industrial Ethernet Switch

#### Product description

MIEN6024 series layer 2 industrial Ethernet switch is an industrial Ethernet communication product developed by Maiwe for industrial communication. The product uses high-performance industrial-grade switch chip and has 24 100M ports, supports photoelectric port optional, and have AC220V/DC110V industrial power input function, which can improve the stability of network communication and save wiring.



#### Features:

- 24x100M RJ45 or fiber ports are available, flexible ports configuration
- Support status display with front and back side indicator lights
- Support MW-Ring patent redundancy technique (failure recovery time <20ms)
- Support static multicast filtering, IGMP Snooping
- Supports broadcast storm suppression and port rate control
- Support isolated power supply, optional dual redundant power supply
- Support power off, fiber off, storm and other status relay alarm output
- Support managed function such as VLAN, QoS, Trunking, and port mirroring
- Wide temperature range design, fanless thermal design
- Satisfy harsh industrial environment

## Product specification

### Software function

|                            |                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch Properties          | Supports Rate limit, Trunking, flow control, VLAN, IEEE 802.1Q VLAN and broadcast storm suppression                                                                                                                                                                                                                             |
| Redundancy Protocols       | Support MW-Ring patent redundancy technique (failure recovery time <20ms)<br>Support STP/RSTP                                                                                                                                                                                                                                   |
| Multicast                  | Support IGMP v1 / v2, IGMP Snooping<br>Support GMRP, support static multicast                                                                                                                                                                                                                                                   |
| Security                   | Support IEEE 802.1x, HTTP, RADIUS, user grading and MAC address binding                                                                                                                                                                                                                                                         |
| Service quality management | Supports SP and WRR queuing.<br>Support QoS setting                                                                                                                                                                                                                                                                             |
| IP address management      | Support DHCP server                                                                                                                                                                                                                                                                                                             |
| Management and maintenance | Supports Console, Web management methods<br>Support SNMPv1/v2c, Centralized management via MWview<br>Support software updating<br>Supports the IP/MAC address conflict alarm<br>Support power off, power alarm, port alarm<br>Support log viewing<br>Support Link-check and NTP<br>Support accept and transfer frame statistics |

### Technical parameters

|                   |                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol Standard | IEEE802.3(Ethernet), IEEE802.3u (100Base-TX&100Base-FX), IEEE802.3x(Flow control), IEEE802.1D(STP), IEEE802.1w(RSTP), IEEE802.1Q(VLAN), IEEE802.1p (Priority), IEEE802.1x(Access Control) |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Switch capability

|                     |         |
|---------------------|---------|
| Priority Queues     | 4       |
| VLAN Number         | 4096    |
| multicast group     | 256     |
| MAC Table Size      | 8k      |
| Backplane bandwidth | 8.8Gbps |
| Switch Delay        | <5μs    |

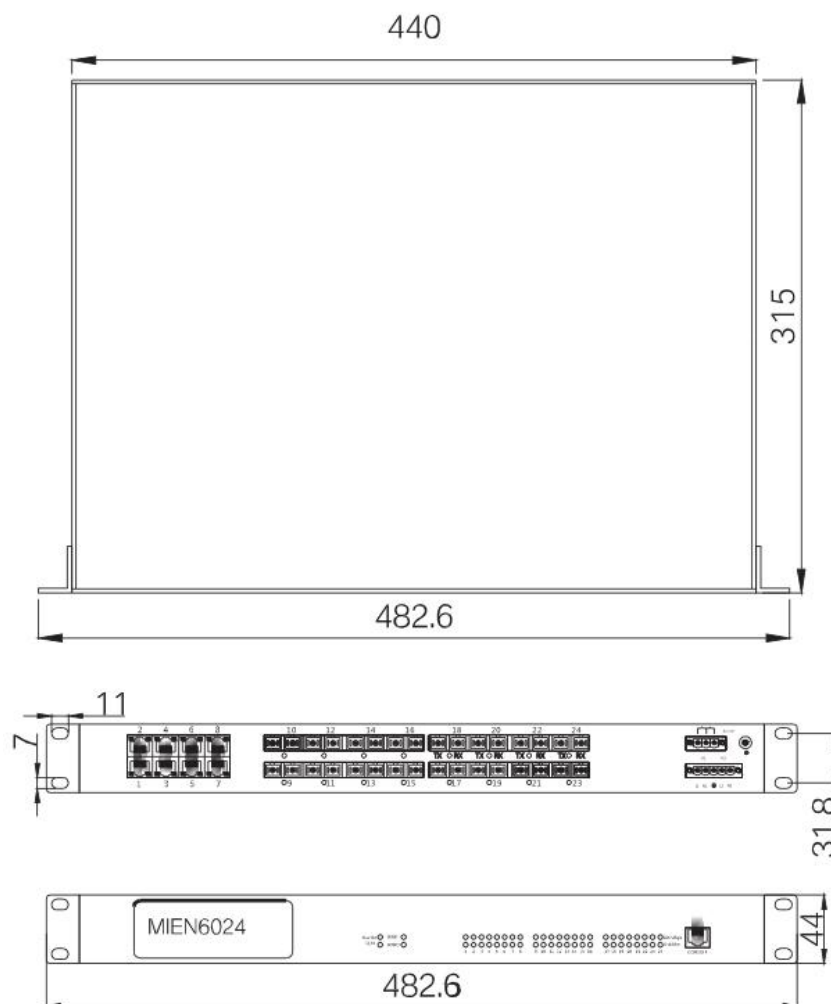
### Interface

|            |                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------------|
| 100M ports | Port numbers:24                                                                                                |
|            | Connector: 1×9 fixed fiber port (single/ multi-mode optional, SC/FC/ST interface)& self-adaptive RJ45 100M -TX |
|            | Baud rate: 100Base-FX (fiber port), Self-adaption 10/100MBase-TX                                               |

|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| Console port                   | RS232, RJ45                                                                               |
| Terminal block for relay alarm | 5.08mm terminal block ,1A@24VDC                                                           |
| Terminal block for power input | MIEN6024, MIEN6024-4/8F 7.62mm terminal block<br>MIEN6024-12/16/24F 5.08mm terminal block |
| Communication distance         |                                                                                           |
| Twisted-pair                   | 100m(CAT5/CAT5e cable)                                                                    |
| Multi-mode fiber               | 100M multi-mode: 1310nm, 2km                                                              |
| Single-mode fiber              | 100M single-mode: 1310nm, 20/40km; 1550nm, 60/80km                                        |
| LED indicator lights           |                                                                                           |
| Front panel LED lights         | Port light: LINK/ACT; SPEED                                                               |
|                                | System work light: RUN                                                                    |
|                                | Power status light: PWR1, PWR2;                                                           |
|                                | Alarm light: ALARM                                                                        |
| Back panel LED lights          | RJ45 Port light: LINK/ACT; SPEED                                                          |
|                                | Fiber light: LINK/ACT                                                                     |
| Power                          |                                                                                           |
| Input power                    | AC / DC220V (85-264VAC / 110-370VDC)                                                      |
| Power consumption              | <25W@(MAX)                                                                                |
| Overload protection            | Support                                                                                   |
| Reverse protection             | Support                                                                                   |
| Redundancy protection          | Support                                                                                   |
| Working Environment            |                                                                                           |
| Operating Temperature          | -40°C~85°C                                                                                |
| Storage temperature            | -45°C~85°C                                                                                |
| Ambient Humidity               | 5%~95%                                                                                    |
| Physical Characteristics       |                                                                                           |
| Shell                          | IP40 protection, aluminum alloy shell                                                     |
| Installation                   | Standard 19-inch rack mounting,                                                           |
| Dimension                      | MIEN6024, MIEN6024-4/8F 482.6mm×44mm×210mm<br>MIEN6024-12/16/24F 482.6mm×44mm×315mm       |
| Industry standard              |                                                                                           |

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC                  | EN61000-4-2(ESD), Level 4<br>EN61000-4-3(RS), Level 4<br>EN61000-4-4(EFT), Level 4<br>EN61000-4-5(Surge), Level 4<br>EN61000-4-6(CS), Level 4<br>EN61000-4-8, Level 5 |
| Impact               | IEC60068-2-27                                                                                                                                                         |
| Falling              | IEC60068-2-32                                                                                                                                                         |
| Shock                | IEC60068-2-6                                                                                                                                                          |
| <b>Warranty</b>      |                                                                                                                                                                       |
| Warranty             | 5 Years                                                                                                                                                               |
| <b>Certification</b> |                                                                                                                                                                       |
| Certification        | CE, FCC, RoHS                                                                                                                                                         |

## Dimensional drawing



Rack mounting (unit: mm)

## Ordering information

|                         |                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| MIEN6024-AD220          | 24x10/100M RJ45 ports, layer 2 managed rack-mount industrial Ethernet switch, single AC85-264V/ DC110~370V isolate power supply. |
| MIEN6024-4M-SC02-AD220  | 4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,SC connector,2KM.        |
| MIEN6024-4M-ST02-AD220  | 4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,ST connector,2KM.        |
| MIEN6024-4M-FC02-AD220  | 4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,FC connector,2KM.        |
| MIEN6024-8M-SC02-AD220  | 8x100M fiber ports +16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,SC connector,2KM.        |
| MIEN6024-8M-ST02-AD220  | 8x100M fiber ports +16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,ST connector,2KM.        |
| MIEN6024-8M-FC02-AD220  | 8x100M fiber ports +16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,FC connector,2KM.        |
| MIEN6024-12M-SC02-AD220 | 12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,SC connector,2KM.        |
| MIEN6024-12M-ST02-AD220 | 12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,ST connector,2KM.        |
| MIEN6024-12M-FC02-AD220 | 12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Multi-mode,FC connector,2KM.        |
| MIEN6024-24M-SC02-AD220 | 24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply. Multi-mode,SC connector,2KM.                             |
| MIEN6024-24M-ST02-AD220 | 24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply. Multi-mode,ST connector,2KM.                             |
| MIEN6024-24M-FC02-AD220 | 24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply. Multi-mode,FC connector,2KM.                             |
| MIEN6024-4S-SC20-AD220  | 4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Single-mode,SC connector,20KM.      |
| MIEN6024-4S-ST20-AD220  | 4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Single-mode,ST connector,20KM.      |
| MIEN6024-4S-FC20-AD220  | 4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Single-mode,FC connector,20KM.      |
| MIEN6024-8S-SC20-AD220  | 8x100M fiber ports +16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Single-mode,SC connector,20KM.      |
| MIEN6024-8S-ST20-AD220  | 8x100M fiber ports +16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Single-mode,ST connector,20KM.      |
| MIEN6024-8S-FC20-AD220  | 8x100M fiber ports +16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Single-mode,FC connector,20KM.      |
| MIEN6024-12S-SC20-AD220 | 12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Single-mode,SC connector,20KM.      |
| MIEN6024-12S-ST20-AD220 | 12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply.Single-mode,ST connector,20KM.      |

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