

## MIGE3028-4GF

### 28-port Gigabit Rack-mount Unmanaged Industrial Ethernet switch

#### Product description

The MIGE3028 series layer 2 unmanaged Industrial Ethernet Switch are Ethernet communication product developed by Maiwe for industrial communication. The product uses high-performance industrial-grade switch chip. It supports 4 Gigabit SFP +24x10/100M FX/TX ports, with AD220V power input.



#### Features:

- 4 Gigabit fiber ports +24 100M ports for fiber or RJ45 ports optional, flexible ports configuration
- Support status display with front and back side indicator lights
- Start work once connected, quick and convenient
- Support isolated power supply, optional dual redundant power supply
- Support power-down status reply alarm output.
- Wide temperature range design, fanless thermal design
- Satisfy harsh industrial environment

## Product specification

### Technical parameters

|                   |                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Protocol Standard | IEEE802.3Ethernet), IEEE802.3u(100Base-TX&100Base-FX), IEEE802.3x(Flow control), IEEE802.3ab(1000Base-T), IEEE802.3z(1000Base-LX) |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|

### Switch capability

|                     |          |
|---------------------|----------|
| MAC Table Size      | 8k       |
| Backplane bandwidth | 12.8Gbps |
| Switch Delay        | <5μs     |

### Interface

|                                |                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------|
| Gigabit port                   | Port numbers: 4                                                                                            |
|                                | Connector: SFP optical port (LC interface, single/multi-mode optional) or 10/100/1000M adaptive RJ45 ports |
|                                | Baud rate: 1000Base-LX (fiber port)                                                                        |
| 100M port                      | Number: 24                                                                                                 |
|                                | Connector: 1×9 fixed fiber port(single/multi-mode optional, SC/FC/ST interface) or RJ45 100M TX port       |
|                                | Baud rate: 100Base-FX(fiber port), Self-adaption 10/100Mbase-TX                                            |
| Terminal block for power input | 5.08mm terminal block                                                                                      |
| Terminal block for relay alarm | 5.08mm terminal block, 1A@24VDC                                                                            |

### Communication distance

|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Twisted-pair      | 100m(CAT5/CAT5e cable)                                                |
| Multi-mode fiber  | 1000M multi-mode:850nm, 500m; 100M multi-mode: 850nm 2km; 1310nm, 2km |
| Single-mode fiber | 1000M single-mode: 1310nm, 20km; 100M single-mode: 1550nm, 60/80km    |

### LED indicator lights

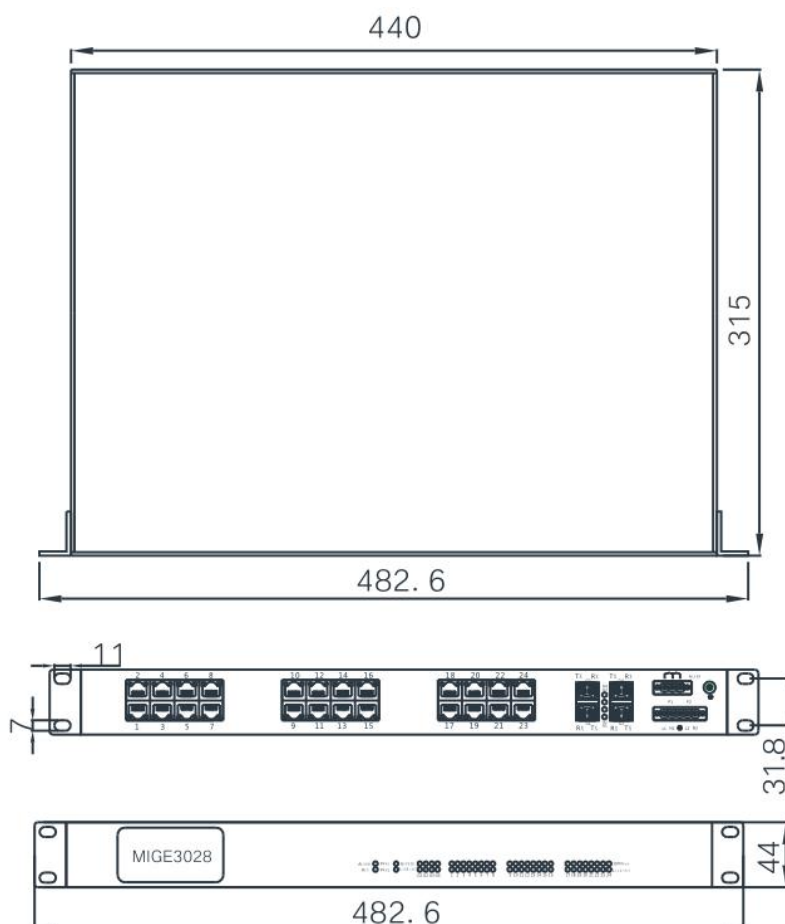
|                        |                                            |
|------------------------|--------------------------------------------|
| Front panel LED lights | Port light: LINK/ACT; SPEED                |
|                        | System work light: RUN                     |
|                        | Power status light: PWR1; PWR2;            |
|                        | Alarm light: ALARM                         |
| Back panel LED lights  | RJ45 Port indicator light: LINK/ACT; SPEED |
|                        | Fiber indicator light: LINK/ACT            |

### Power

|             |                                 |
|-------------|---------------------------------|
| Input power | AD220V (85-264VAC / 110-370VDC) |
|-------------|---------------------------------|

|                                 |                                                                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power consumption               | <40W@(MAX)                                                                                                                                                            |
| Overload protection             | Support                                                                                                                                                               |
| Reverse protection              | Support                                                                                                                                                               |
| Redundancy protection           | Support                                                                                                                                                               |
| <b>Working Environment</b>      |                                                                                                                                                                       |
| Operating Temperature           | -40°C~85°C                                                                                                                                                            |
| Storage temperature             | -45°C~85°C                                                                                                                                                            |
| Ambient Humidity                | 5%~95%                                                                                                                                                                |
| <b>Physical Characteristics</b> |                                                                                                                                                                       |
| Shell                           | IP40 protection, aluminum alloy shell                                                                                                                                 |
| Installation                    | Standard 19-inch rack mounting,                                                                                                                                       |
| Dimension                       | 482.6mmx44mmx315mm                                                                                                                                                    |
| <b>Industry standard</b>        |                                                                                                                                                                       |
| 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 mount (unit: mm)

### Ordering Information

|                            |                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| MIGE3028-4GF-AD220         | 4 Gigabit SFP ports +24x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply                                                    |
| MIGE3028-4GF-4M-SC02-AD220 | 4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,SC connector.2km.   |
| MIGE3028-4GF-4M-ST02-AD220 | 4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,ST connector.2km.   |
| MIGE3028-4GF-4M-FC02-AD220 | 4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,FC connector.2km.   |
| MIGE3028-4GF-4S-SC20-AD220 | 4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,SC connector.20km. |
| MIGE3028-4GF-4S-ST20-AD220 | 4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,ST connector.20km. |
| MIGE3028-4GF-4S-FC20-AD220 | 4 Gigabit SFP ports +4x100M fiber port +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,FC connector.20km.  |

|                                 |                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| MIGE3028-4GF-8M-S<br>C02-AD220  | 4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,multi-mode,SC connector.2km    |
| MIGE3028-4GF-8M-S<br>T02-AD220  | 4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,multi-mode,ST connector.2km    |
| MIGE3028-4GF-8M-F<br>C02-AD220  | 4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,multi-mode,FC connector.2km    |
| MIGE3028-4GF-8S-S<br>C20-AD220  | 4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,single-mode,SC connector.20km  |
| MIGE3028-4GF-8S-ST<br>20-AD220  | 4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,single-mode,ST connector.20km  |
| MIGE3028-4GF-8S-FC<br>20-AD220  | 4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,single-mode,FC connector.20km  |
| MIGE3028-4GF-12M-<br>SC02-AD220 | 4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,multi-mode,SC connector.2km   |
| MIGE3028-4GF-12M-<br>ST02-AD220 | 4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,multi-mode,ST connector.2km   |
| MIGE3028-4GF-12M-F<br>C02-AD220 | 4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,multi-mode,FC connector.2km   |
| MIGE3028-4GF-12S-S<br>C20-AD220 | 4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,single-mode,SC connector.20km |
| MIGE3028-4GF-12S-S<br>T20-AD220 | 4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,single-mode,ST connector.20km |
| MIGE3028-4GF-12S-F<br>C20-AD220 | 4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/<br>DC110~370V isolate power supply,single-mode,FC connector.20km |
| MIGE3028-4GF-24M-<br>SC02-AD220 | 4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate<br>power supply,multi-mode,SC connector.2km                         |
| MIGE3028-4GF-24M-<br>ST02-AD220 | 4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate<br>power supply,multi-mode,ST connector.2km                         |
| MIGE3028-4GF-24M-F<br>C02-AD220 | 4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate<br>power supply,multi-mode,FC connector.2km                         |
| MIGE3028-4GF-24S-S<br>C20-AD220 | 4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate<br>power supply,single-mode,SC connector.20km                       |
| MIGE3028-4GF-24S-S<br>T20-AD220 | 4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate<br>power supply,single-mode,ST connector.20km                       |
| MIGE3028-4GF-24S-F<br>C20-AD220 | 4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate<br>power supply,single-mode,FC connector.20km                       |