

# Unmanaged Industrial Switch

FNS100-08-AGB



## Introduction

The FNS100-08-AGB series is a non-managed industrial Ethernet switch. It supports 8 x 1000Mbps Ethernet ports; supports Ethernet layer 2 protocols required for industrial field to ensure the stability of the communication network; this series of switches adopts low power consumption and fanless design to ensure no noise interference. It also supports -40~70°C operating temperature and good EMC electromagnetic compatibility to ensure stable operation in harsh industrial environments. It provides a safe and reliable solution for building fast and stable network terminal access networks in industrial application fields such as factory automation, intelligent transportation, and video surveillance.



Industrial-grade Design

- ▶ Metal casing, IP40 protection level
- ▶ Wide range operating temperature (-40°C~70°C)



Stability & Reliability

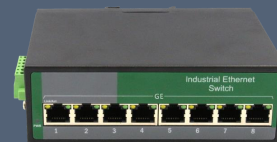
- ▶ Supports low power consumption, fanless silent design
- ▶ Metal housing, excellent heat dissipation, ensures stable operation of the product.



Standard & Convenience

- ▶ Supports plug and play, flexible networking
- ▶ Support DIN-Rail and wall mounting
- ▶ Support POE (Optional)

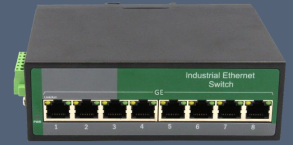
# Unmanaged Industrial Switch FNS100-08-AGB



## Production Specification

| Standard                   |  |
|----------------------------|--|
| Model                      | FNS100-08-AGB  |
| Item                       | Content  |
| <b>Ethernet Standard</b>   | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u, 100Base-TX/FX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x, IEEE802.3af, IEEE802.3at, etc.<br>EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A<br>EMC:<br>IEC(EN)61000-4-2(ESD): ±6kV Contact discharge, ±8kV Air discharge<br>IEC(EN)61000-4-3(RS) : 10V/m(80 ~ 1000MHz)<br>IEC(EN)61000-4-4(EFT): ethernet port: ±2kV CM//±1kV DM.<br>IEC(EN)61000-4-5(Surge): ethernet port: ±2kV CM//±1kV DM. |
| <b>Industry Standard</b>   | IEC(EN)61000-4-6(Radio frequency conduction) : 3V(10kHz ~ 150kHz),10V(150kHz ~ 80MHz)<br>IEC(EN)61000-4-16(Common mode conduction): 30V cont. 300V,1s<br>IEC (EN)61000-4-8<br>Shock: IEC 60068-2-27<br>Freefall: IEC 60068-2-32<br>Vibration: IEC 60068-2-6  |
| Interfaces                 |  |
| Item                       | Content  |
| <b>Ethernet Port</b>       | Number: 8<br>Type: RJ45, 10/100/1000M automatic detection, full/half duplex MDI/MDI-X adaptive   |
| Switching Characteristic   |  |
| Item                       | Content  |
| <b>Buffer Memory</b>       | 2Mbit  |
| <b>Transmission Method</b> | Store-and-forward  |
| <b>Backplane Bandwidth</b> | 20G  |
| <b>Switching Latency</b>   | <10μs  |
| <b>MAC Address</b>         | 4K   |
| Power                      |  |
| Item                       | Content  |
| <b>Input Voltage</b>       | Non POE: DC12-52V<br>POE: DC48-57V (Dual power redundancy backup)  |
| <b>Access Terminal</b>     | Phoenix terminal block   |
| <b>Characteristics</b>     | Support dual power supply redundancy<br>Support built-in over-current protection<br>Support reverse connection protection with 4.0 A   |

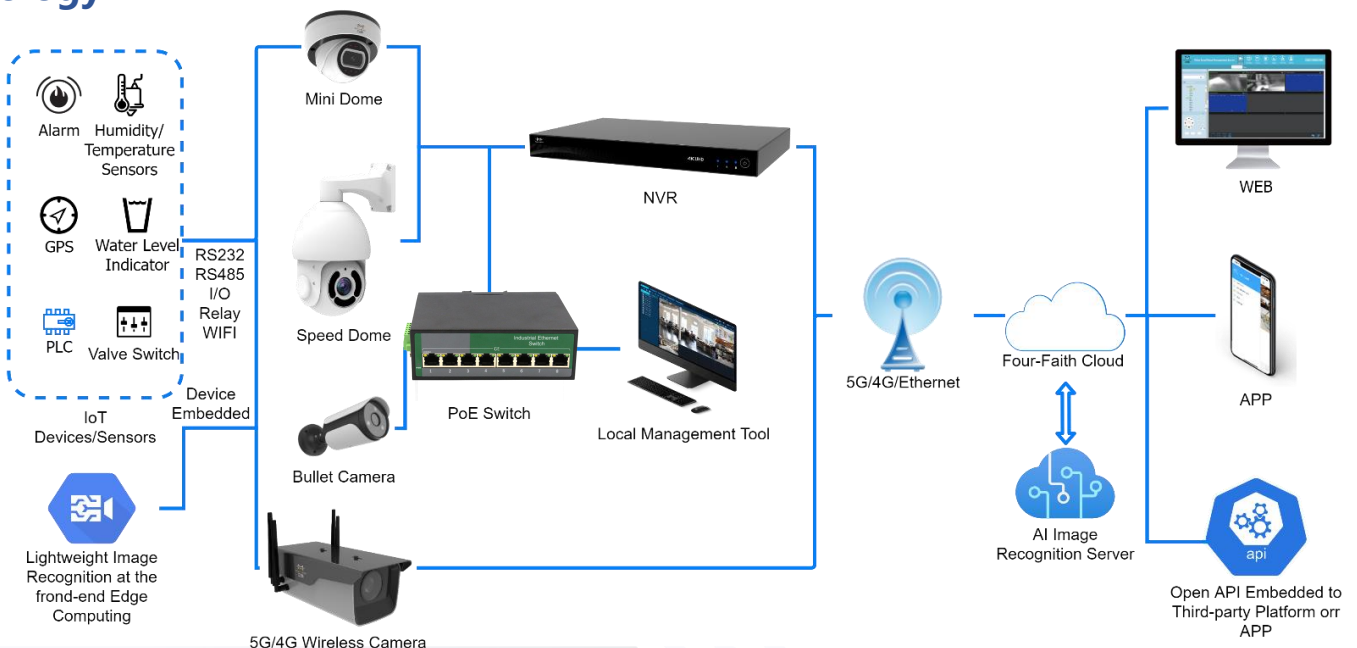
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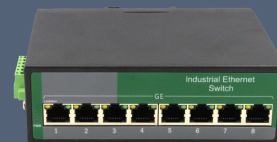
## Operating Environment

| Model                          | FNS100-8-AGB   |
|--------------------------------|--|
| <b>Item</b>                    | <b>Content</b>   |
| <b>Operating Temperature</b>   | -40 °C ~85°C   |
| <b>Storage Temperature</b>     | -40 °C ~70°C   |
| <b>Relative Humidity</b>       | 5~95% (Non-condensing))  |
| <b>POE Standard (Optional)</b> |  |
| <b>Item</b>                    | <b>Content</b>   |
| <b>PoE Standard</b>            | IEEE802.3af/ IEEE802.3at   |
| <b>PoE Port</b>                | 1-8 port support PoE   |
| <b>Output Power</b>            | Single port maximum power 15.4 W (IEEE 802.3 af)<br>30 W (IEEE 802.3 at) |
| <b>Other</b>                   |  |
| <b>Item</b>                    | <b>Content</b>   |
| <b>Shell</b>                   | IP40 protection level, metal casing                                      |
| <b>Characteristic</b>          | Support plug & play  |
| <b>Dimension</b>               | 142.5×103.5×47.5mm   |
| <b>Weight</b>                  | 0.64Kg   |
| <b>Installation Method</b>     | DIN rail   |
| <b>Heat-dissipating Method</b> | Natural cooling, no fan  |
| <b>LED</b>                     | Power Indicator: PWR<br>Port indicator: POE port (Link/ACT)              |
| <b>MTBF</b>                    | 300000 Hours   |

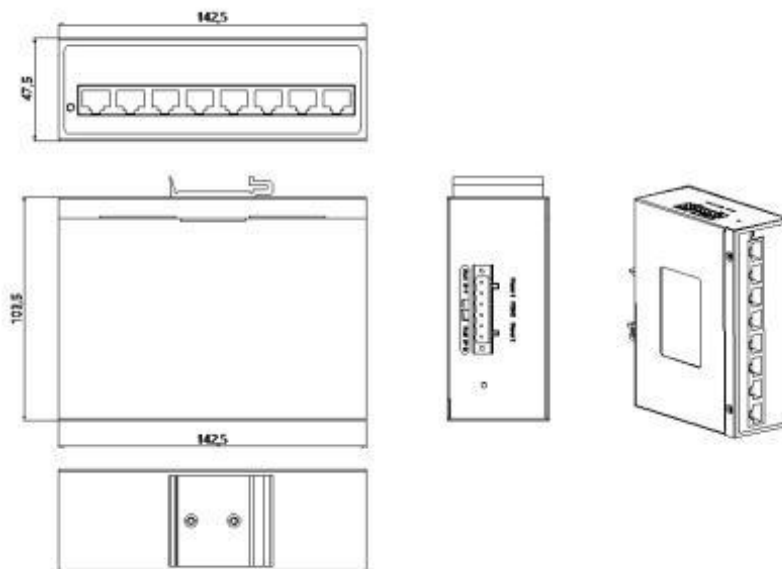
## Topology



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Dimension (mm): 142.5\*103.5\*47.5



## Order Information

| Model            | Description  |
|------------------|--|
| FNS100-08-AGB    | Non-managed 8 x 1000M ethernet ports, Din rail type, DC12-52V, wide temperature (-40°C-70°C)<br>DC24V/1A power adapter |
| FNS100-08-AGB-8P | Non-managed 8 x 1000M ports (POE), Din rail type, DC48-57V, wide temperature (-40°C-70°C)<br>DC52V/1.5A power adapter  |