

# 8+4 Managed Switch

➤ User Manual

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G1200W-8G-4S-PRO



hasivo sichuan

## Overview

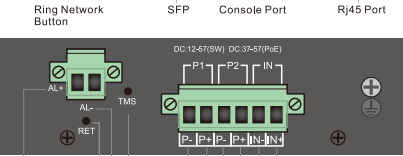
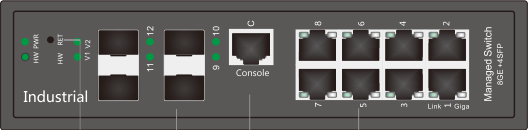
"**hasivo**" industrial managed PoE switch series feature the performance on an industrial level, which can withstand severe working environment. With rich series and flexible port configuration, the switches are suitable for using requirements in various industrial field. Owing an unique and special industry management interface, the switches provide a comprehensive security system, perfect ring network application, QOS strategy and rich VLAN function. It is convenient to manage and maintain which is satisfied in complex environment with high density such as in factories, mines, industry automation, transportation, infrastructure, port and farmlands. High-power PoE power supply and intelligent management function are applied in various network.

## Features

- ◆ Unique industrial management interface, achieving high-efficiency network management.
- ◆ Lightning protection: up to 6KV.
- ◆ ESD static protection: up to 8KV.
- ◆ Support industrial operation temperature: -40°C~80°C;
- ◆ Industrial operation humidity: 10%~90% RH non coagulation.
- ◆ Wide voltage input: 12-57V(SW)/ 37-57V(PoE).
- ◆ Power-receiving standard: 12-57V(SW)/ 37-57V(PoE).
- ◆ Unique ring network formation with one button to achieve quick application.

## Display & Description

G1200W-8G-4S-PRO, 8\*10/100/1000M RJ45+4\*1000M SFP



- Alarm Input+
- Alarm Input-
- Alarm Input-(second group of DC+)
- Alarm Input-(second group of DC-)
- Alarm Input-(first group of DC+)
- Alarm Input-(first group of DC-)

## Indicator

| Indicator     |        | Status | Description                         |
|---------------|--------|--------|-------------------------------------|
| Power LED:PWR |        | on     | Normal                              |
|               |        | off    | Power Unconnected                   |
|               |        | flash  | Port circuit or current over-loaded |
| Network LED   | Orange | on     | Giga on                             |
|               |        | off    | Giga off                            |
|               | Green  | on     | Link on                             |
|               |        | off    | Link off                            |
| SFP LED:9-10  |        | on     | SFP on                              |
|               |        | off    | SFP off                             |

| Function Indicator(Front)      | Status           | Description                         | Function Indicator(Front)          | Status           | Description                          |
|--------------------------------|------------------|-------------------------------------|------------------------------------|------------------|--------------------------------------|
| PD:Power-receiving LED         | Always ON        | Device powered normally             | HW: Ring network LED               | Always ON        | Ring network formed                  |
|                                | Always OFF       | Powered PD unaccepted               |                                    | Always OFF       | Ring network not formed              |
| V1: Main power indicator light | Always ON        | Ring network not formed             | V2: From the power indicator light | Always ON        | Power is normal and in power supply  |
|                                | Always OFF       | Ring network not formed             |                                    | Always OFF       | No power input                       |
|                                | Flicker for 1/4s | Power is normal and in power supply |                                    | Flicker for 1/4s | Power and voltage abnormal           |
|                                | Flicker for 1s   | No power input                      |                                    | Flicker for 1s   | Power and voltage normal(in reserve) |

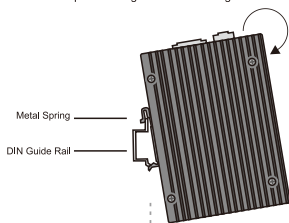
## Product List



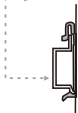
## Installation

### DIN Guide Rail

- ① Insert the top of DIN guide rail into the groove at the bottom of rigid metallic spring.

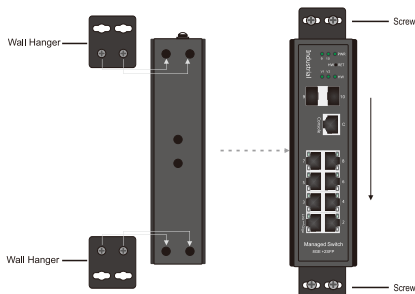


- ② Install DIN guide rail base unit as shown in the pictures



### Wall-mounting

- ① Install the wall hangers onto the switch. ② Secure the switch length onto the wall by using screws.



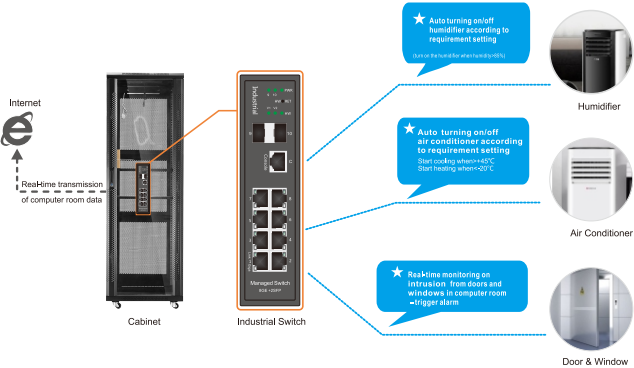
## Attentions

1. Please read the user manual detailed before using the switch, or improper operation can cause damage to machine components.
2. Do not use it in the place near fire source.
3. Do not throw it into the water neither do not wet the inner machine components.
4. Do not short circuit the positive and negative poles of the battery with metal conductor.
5. Do not dismantle or disassemble inner components, or factory will not underwrite the warranty stipulation.

Application

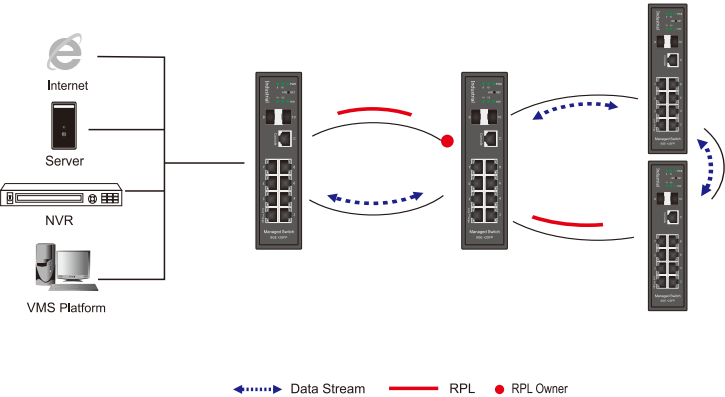
1.Application in Intelligent Computer Room

Not only as a switch, but also a good assistance for computer room management.



2.Ring Network Application on Video Surveillance System

Unique ring network formation with one button, achieving reliable network formation.



## Hardware Parameter

|                                     |                                                                                                                                                                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                               | G1200W-8G-2S-PRO                                                                                                                                                                                                                                   |
| Port                                | 8*10/100/1000M RJ45<br>2*1000M SFP                                                                                                                                                                                                                 |
| Console Port                        | 1*console                                                                                                                                                                                                                                          |
| Reset Key                           | 1                                                                                                                                                                                                                                                  |
| FLASH                               | 16M                                                                                                                                                                                                                                                |
| RAM                                 | 128M                                                                                                                                                                                                                                               |
| Bandwidth                           | 56Gbps                                                                                                                                                                                                                                             |
| Packet Forwarding                   | 14.44Mpps                                                                                                                                                                                                                                          |
| MAC                                 | 8K                                                                                                                                                                                                                                                 |
| Buffer                              | 4.1M                                                                                                                                                                                                                                               |
| Transmission Distance               | 10BASE-T : Cat3,4,5 UTP(=250 meter)<br>100BASE-TX : Cat5 or later UTP(150 meter)<br>1000BASE-TX : Cat6 or later UTP(150 meter)<br>SFP: 1000M single and multimode optical module with maximum distance =120km<br>(depending on the optical module) |
| LED Indicator                       | 9-10:(SFP LED)<br>Port1-8:(Green=100M; Green+Orange=1000M)<br>PWR:(Power/system LED)<br>V1:(Main power indicator light)<br>V2:( From the power indicator light)<br>HW:(Ring network ON LED)                                                        |
| Watt                                | Standby power consumption ≤ 5W;<br>Network Full-load power consumption ≤ 15W;                                                                                                                                                                      |
| Power Input                         | 2 group of independent power input<br>SW:DC12-57V                                                                                                                                                                                                  |
| Lightning Protection Level          | 6KV 8/20us; 8KV ESD; IP40                                                                                                                                                                                                                          |
| Storage Temperature/<br>Humidity    | -40~+80°C;10%~90% RH No coagulation                                                                                                                                                                                                                |
| Operating Temperature/<br>Humidity  | -40~+85°C;5%~95% RHR No coagulation                                                                                                                                                                                                                |
| Product size/Packing<br>size(L*W*H) | 160mm*130mm*45mm<br>280mm*165mm*79mm                                                                                                                                                                                                               |
| N.W/G.W(kg)                         | 1.1kg/1.3kg                                                                                                                                                                                                                                        |
| Installation                        | DIN guide rail type(additional wall hangers)                                                                                                                                                                                                       |
| Certificate                         | 3C; CE-EMC EN55032; CE-LVD EN62368;<br>FCC Part 15 Class B; RoHS                                                                                                                                                                                   |
| Warranty                            | Whole device for 1 year(Accessories not included)                                                                                                                                                                                                  |

PS: We will try our best to check the errors in the printing and pictures, but hasivo will not be responsible for any possible omissions. The appearance, specifications, parameters, prices and supply conditions of the products listed on this page are subject to change without notice.

## Software Parameter

| Model                                 | G1200W-8G-2S-PRO                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitoring Platform                   | Quick formation of ring network with one button<br>System temperature monitoring and alarm<br>External temperature and humidity monitoring and alarm<br>Input power monitoring and alarm<br>System each channel key voltage monitoring and alarm<br>System total current, total power monitoring and alarm<br>All-Port network monitoring and alarm<br>Support one group input and output signal monitoring and alarm |
| Network Protocol                      | IEEE 802.3x<br>IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z<br>IEEE 802.3ad<br>IEEE 802.3q, IEEE 802.3q/p<br>IEEE 802.1w, IEEE 802.1d, IEEE 802.1s, IEEE 802.1x                                                                                                                                                                                                                                                 |
| MAC                                   | Support 16K MAC address, auto aging and learning                                                                                                                                                                                                                                                                                                                                                                      |
| VLAN Configuration                    | Support port-based VLAN<br>Up to 4096 VLANs<br>Support Voice VLAN, can configure Qos for voice data<br>802.1Q VLAN                                                                                                                                                                                                                                                                                                    |
| Spanning Tree                         | STP(Spanning tree protocol); RSTP/MSTP(Rapid spanning tree protocol)<br>EPPS/EAPS(Ring network protocol); 802.1x                                                                                                                                                                                                                                                                                                      |
| Port Aggregation                      | Support 8 groups of aggregation, each group support up to 8 ports;                                                                                                                                                                                                                                                                                                                                                    |
| Port Mirroring                        | Support many-to-one port mirroring                                                                                                                                                                                                                                                                                                                                                                                    |
| Loop Guard                            | Support loop protection, real-time detection, quick alarm, concise location, Intelligent blocking, automatic recovery                                                                                                                                                                                                                                                                                                 |
| Port Isolation                        | Support downlink ports isolate from each other and communicate with uplink port as well                                                                                                                                                                                                                                                                                                                               |
| Flow Control                          | Half duplex based on Back pressure; Full duplex based on PAUSE frame                                                                                                                                                                                                                                                                                                                                                  |
| Speed Limitation                      | Bandwidth management based on port input and output                                                                                                                                                                                                                                                                                                                                                                   |
| Multicast Control                     | IGMPv1/2/3 and MLDv1/2 Snooping<br>GMRP protocol registration<br>Multicast address management, multicast VLAN, multicast routing port, static multicast address                                                                                                                                                                                                                                                       |
| DHCP                                  | DHCP Snooping                                                                                                                                                                                                                                                                                                                                                                                                         |
| Storm Suppression                     | Support unknown unicast, multicast, unknown multicast, broadcast type storm suppression<br>Storm suppression based on bandwidth adjustment and storm filtering                                                                                                                                                                                                                                                        |
| Security                              | Support User port+IP address+MAC address; ACL based on IP, MAC;<br>Support security properties of number of MAC address based on port                                                                                                                                                                                                                                                                                 |
| QOS                                   | 802.1p port queue priority algorithm; Cos/Tos, QOS remark<br>WRR(Weighted Round Robin), weighted priority rotation algorithm; WRR?SP?WFQ priority scheduling modes                                                                                                                                                                                                                                                    |
| Cable Sequence                        | Auto-MDIX; auto detection on straight-through and cross-over cable                                                                                                                                                                                                                                                                                                                                                    |
| System maintenance                    | Upgrade package upload; System log viewing; WEB recovery factory configuration                                                                                                                                                                                                                                                                                                                                        |
| PoE Function<br>(only for PoE models) | Port switch<br>Schedule arrangement, timing switch<br>Voltage, current, power display<br>System total power display and configuration<br>PoE dog: support auto reset, timing reset and ip binding reset when device failed<br>Port power configuration(AF, AT HiPoE, BT)<br>Indication of over power<br>Port PoE type configuration(48V/24V power supplying)                                                          |
| Network Management                    | WEB interface management; CLI management based on Telnet, TFTP, Console; SNMP V1/V2/V3 management<br>RMON V1/V2 management; RMON management                                                                                                                                                                                                                                                                           |

The followings are main functions not included in all the functions. Please contact with us for more other information!  
We support software development for customization requirement.

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