

Admas8012G-M12-12GT

12-port M12 Layer 3 Full Gigabit Managed Rackmount Industrial Ethernet Switch



- ◆ 12 10/100/1000Base-T adaptive Ethernet interfaces (full duplex, half duplex), support automatic MDI/MDI-X connection;
- ◆ Ethernet ports 1, 2 and 3, 4 support Relay Bypass function;
- ◆ Support the M12 interface to ensure the airtightness and firmness of the interface connection and meet the requirements of the EN50155 industry standard;
- ◆ Support multiple redundancy protocols such as MW-Ring, ERPS, MSTP, VRRP;
- ◆ Support to access the command line interface of the switch through software such as HyperTerminal;
- ◆ The high-strength enclosed aluminum housing, IP40 protection level, and efficient heat dissipation without fans, enables the system to work reliably in harsh and dangerous industrial environments at -40~+70°C.



RoHS



MW-Ring

IP40

Product Description

Admas8012G series is a full Gigabit three-layer industrial switch, which is specially developed for the rail transit industry. The aviation interface M12 interface form is adopted to ensure the sealing and firmness of the port connection. The product design meets the requirements of the EN50155, EN50121 and IEC61373 industry standards.

Admas8012G series follow the main communication standards in the industrial field to meet technical issues such as real-time communication and network security. At the same time, it provides a variety of ways to manage the switch, including accessing the command line interface (CLI) of the switch through the HyperTerminal, or managing the switch through the telnet management system, or using the SNMP management software system to manage the switch. In addition, it also supports multiple network monitoring protocols: LLDP, SNTPv4, DHCP. Besides, It can provide MSTP, VRRP, IGMP, IGMP Snooping and some commonly used advanced management functions such as VLAN, GVRP, QoS, port aggregation, port speed limit, broadcast storm suppression, ACL, and port mirroring. Support RIPv1/v2 and OSPF v1/v2, static routing protocol, support FTP/TFTP upgrade, support log recording and upload, support power failure alarm output. In terms of structural installation, rack installation is supported. The products are widely used in vehicle-mounted PIS, CCTV, and train control systems, especially suitable for application scenarios with strong movement and impact.

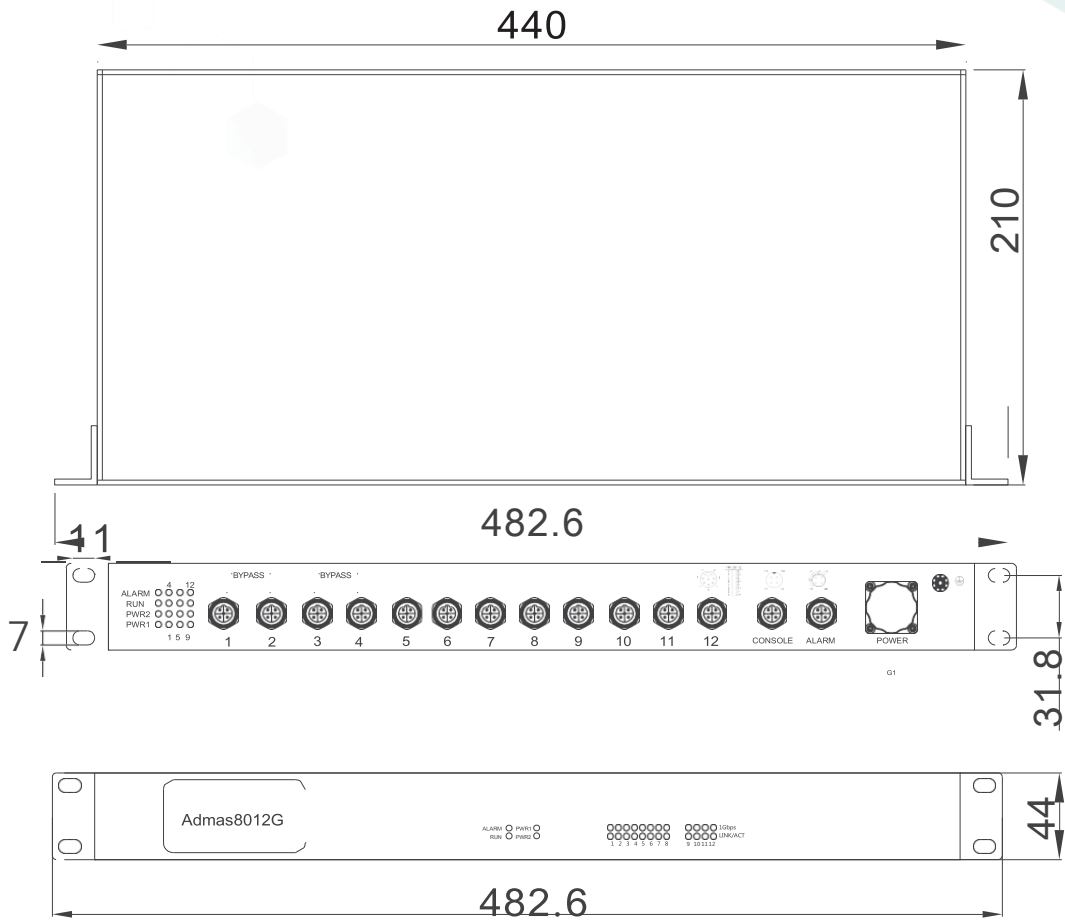
Product Features

- ◆ 12 10/100/1000Base-T adaptive Ethernet interfaces (full-duplex, half-duplex), support automatic MDI/MDI-X connection;
- ◆ Support the M12 interface form to ensure the airtightness and firmness of the interface connection and meet the requirements of the EN50155 industry standard;
- ◆ Ethernet ports 1, 2 and 3, 4 support Relay Bypass function;
- ◆ The fast ring network redundancy technology of less than 20ms enhances the reliability of system communication;
- ◆ Support VLAN based on IEEE802.1Q, the number is 4096;
- ◆ Support multiple redundancy protocols such as ERPS, MSTP, VRRP;
- ◆ Support static routing, support RIP v1/v2, OSPF v1/v2 and other dynamic routing protocols;
- ◆ Support multiple multicast protocols such as IGMP, PIM-SM, PIM-DM;
- ◆ The MAC address table supports 16K;
- ◆ Support perfect Qos strategy and multiple queue scheduling algorithms;
- ◆ Support multiple network management protocols such as SNMP, RMON, Telnet, etc.;
- ◆ Support to access the command line interface (CLI) of the switch through software such as HyperTerminal;
- ◆ Support hardware ACL function, provide ACL hardware filtering based on L2-L7 layer data;
- ◆ Support IGMP Snooping detection function;
- ◆ Support full-duplex and half-duplex flow control;
- ◆ Support broadcast storm suppression, support power alarm, port alarm, ring alarm function;
- ◆ Online software upgrade based on FTP/TFTP can facilitate user equipment management and update;
- ◆ With graphical network configuration and management and maintenance functions.

Product Specification

| Product Parameters | |
|----------------------------|---|
| IEEE standard | 802.3, 802.3u, 802.3z, 802.3x, 802.1P, 802.3ab, etc. |
| Exchange function | Support VLAN, GVRP |
| | Support port speed limit, support storm suppression |
| | Support port aggregation |
| | Support port flow control |
| Redundant technology | Support VRRP, ERPS |
| | Support MW-Ring ring network technology |
| | Support MSTP/RSTP, compatible with STP |
| Multicast technology | Support IGMP v1/v2/v3, IGMP Snooping |
| | Support GMRP |
| | Support static multicast, support PIM-SM, PIM-DM |
| Routing technology | Support RIPv1/v2, RIPng, OSPFv1/v2 |
| | Support static routing protocol |
| Service quality management | Support ACL, filter the data of L2-L7 layer |
| | Support SP, WRR queue scheduling |
| Management and maintenance | Support Console, Telnet, WEB management mode, RMON |
| | Support SNMPv1/v2c, centralized management through MaxView |
| | Support FTP, TFTP file transfer and software upgrade |
| | Support power failure alarm, power supply alarm, port alarm, ring network storm alarm |
| | Support port mirroring, Syslog, LLDP, RTC, SNTPv4 |
| | IP supports DHCP server/relay/client |
| Exchange method | Store and forward |
| Backplane bandwidth | 24Gbps |
| Packet forwarding rate | 17.856 Mpps |
| Gigabit port | 12 10/100/1000Base-T |
| Copper port parameters | Physical interface: M12 port, IEEE802.3 standard |
| | M12 port: 10/100/1000Base-T (Gigabit) supports auto-negotiation function |
| | Transmission distance: 100 meters (standard CAT5/CAT5e cable) |
| Power parameters | Input voltage: 24DC (18-36VDC), 48DC (36-72VDC), 110DC (50-160VDC), 220AC/DC (85~264VAC/110~370VDC) |
| | Input power consumption: 15W (MAX) |
| | Overcurrent protection: built-in |
| Mechanical parameters | Physical dimensions (width × height × depth): 482.6mm × 44mm × 210mm |
| | Installation method: standard 19' 1U rack |
| | Heat dissipation form: aluminum alloy single-rib chassis surface heat dissipation, no fan |
| | Outlet form: front and rear outlet |
| | Case protection: IP40 |
| Working environment | Working temperature: -40°C~+70°C |
| | Storage temperature: -40°C~+85°C |
| | Humidity: 5%~95% (no condensation) |
| EMC standards | EN61000-4-2 anti-static (ESD): ±8kV contact discharge, ±15kV air discharge |
| | EN61000-4-3 electromagnetic field: 10V/m (80-1000MHz) |
| | EN61000-4-6 anti-conduction: 3V (10kHz~150 kHz), 10V (150kHz~80 MHz) |
| | EN55022: EN55022 Class A |

Installation Size



Ordering Information

| Product model | 10/100/1000M Base-Tx | Power |
|---------------------------|-------------------------|--------------------------------|
| Admas8012G-M12-12GT-DC24 | 12 | Standard single-channel DC24V |
| Admas8012G-M12-12GT-DC48 | 12 | Standard single-channel DC48V |
| Admas8012G-M12-12GT-DC110 | 12 | Standard single-channel DC110V |
| Admas8012G-M12-12GT-AD220 | 12 | Standard single-channel AD220V |