

# 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.



# 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.

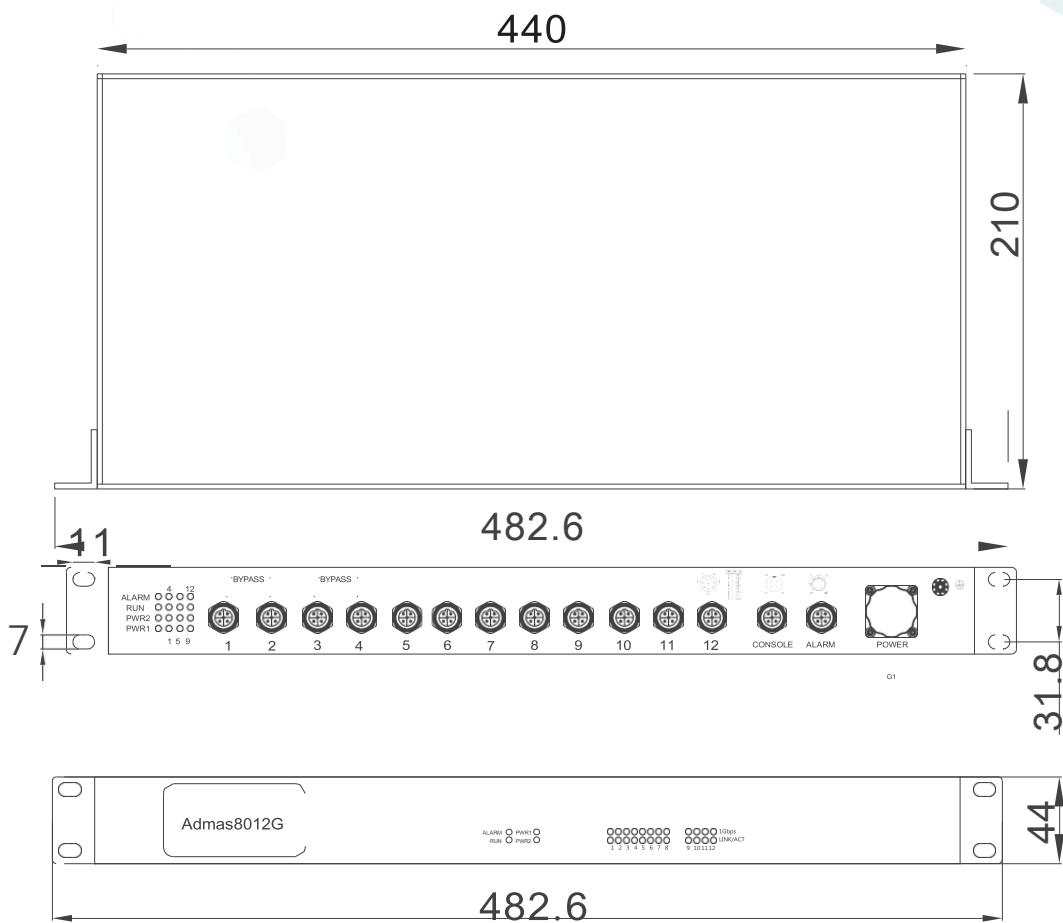
## Product Features

- ◆ 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