

Admas8012G-M12-12GT

12 M12 Ports Full Gigabit Layer 3 Rack Mounting Industrial Ethernet Switch

Product description

Admas8012G-M12-12GT series switches are full-Gigabit layer 3 routing switch for rail transit industry. The switch supports the interface form of M12, meeting the requirements of EN50155 rail transit industry standard which ensures the tightness and firmness of port connection. It can be widely used in vehicle PIS, CCTV, train control system, especially suitable for applications with strong vibration and impact filed.



Features:

- Support 12 M12 Gigabit Ethernet interfaces, M12 relay alarm output, M12 power interface
M12 Console configuration interface
- Ethernet interface 1, 2 and 3, 4 support Relay Bypass function
- Support RIP, OSPF, PIM Layer 3 routing protocols
- Support multiple multicast protocols such as IGMP, PIM-SM, and PIM-DM
- Support MW-Ring, MSTP, VRRP, EAPS redundancy network
- Support various management method and the network centralized management
- Industrial fanless metal housing design rack-mounted, Support IP40 Protection
- Meet the EN50155 standard

Product specifications

Software function

| | |
|----------------------------|---|
| Switch Properties | Supports Rate limit, Trunking, Flow control, VLAN and GVRP Broadcast storm suppression |
| Redundancy Protocols | Support MW-Ring patent redundancy technique (failure recovery time <20ms) Support MSTP/RSTP, compatible with STP Support VRRP, EAPS |
| Multicast | Support IGMP v1/v2/v3, IGMP Snooping Support GMRP and Support static multicast filtering |
| Routing | Support RIPv1/v2, RIPng, OSPFv1/v2, Support PIM-SM, PIM-DM Support static routing protocol Supports SP and WRR queuing. |
| Service quality management | Support ACL to filter L2-L7 layer data Support QoS setting Supports CLI, Telnet and Web management methods, RMON. Support SNMPv1/v2c Support FTP TFTP document transmission and software updating |
| Management and maintenance | Support power off, power alarm, port alarm Support trunking Support port mirroring, Syslog, LLDP, RTC, SNTPv4 Support Link-check and NTP IP supports DHCP server/relay/client |

Technical parameters

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|-------------------|---|
| Protocol Standard | IEEE802.3-10BaseT, IEEE802.3u-100BaseTX/100Base-FX, IEEE802.3x-Flow Control,IEEE802.3z-1000BaseLX, IEEE802.3ab-1000BaseTX, IEEE802.1ab,IEEE802.1D-Spanning Tree Protocol, IEEE802.1w-Rapid Spanning Tree Protocol, IEEE802.1Q -VLAN Tagging, IEEE802.1s Multiple Spanning Tree Protocol, IEEE802.1p -Class of Service, IEEE802.1X-Port Based Network Access Control GVRP, RIPv1/v2, OSPFv1/v2/v3, VRRP, DHCP, CLI, EAPS, QoS, LACP, LLDP, IGMP, PIM, SNMP, SNTP, SSH |
|-------------------|---|

Switch capability

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|-----------------|------|
| Priority Queues | 8 |
| VLAN Number | 4096 |
| multicast group | 512 |
| MAC Table Size | 16K |

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|---------------------|------------|
| Backplane bandwidth | 24Gbps |
| Switch Delay | <5 μ s |
| Routing table | 8k |

Interface

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|--------------------------------|---|
| | Port numbers: 12 |
| Gigabit port | Connector: M12 Gigabit Ethernet port Interface rate: 10/100 / 1000M adaptive copper port |
| Console port | RS232, RJ45 |
| Terminal block for relay alarm | M12 terminal, 1A@24VDC |
| Terminal block for power input | M12 terminal |

Communication distance

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|--------------|------------------------|
| Twisted-pair | 100m(CAT5/CAT5e cable) |
|--------------|------------------------|

Power

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| Input power | DC24V(18-36VDC), DC48V(36-72VDC), DC110V(50-160VDC), |
| Power consumption | <15W@(MAX) |
| Overload protection | support |
| Inversed protection | support |
| Redundancy protection | support |

Working Environment

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| Operating temperature | -40°C~85°C |
| Storage temperature | -40°C~85°C |
| Ambient humidity | 5%~95% (no condensation) |

Physical Characteristics

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|--------------|---|
| Shell | IP40 protection, aluminium alloy shell |
| Installation | Standard 19-inch rack mounting, Support front and rear outlet installation |
| Dimension | 482.6mm×44mm×315mm |

Industry standard

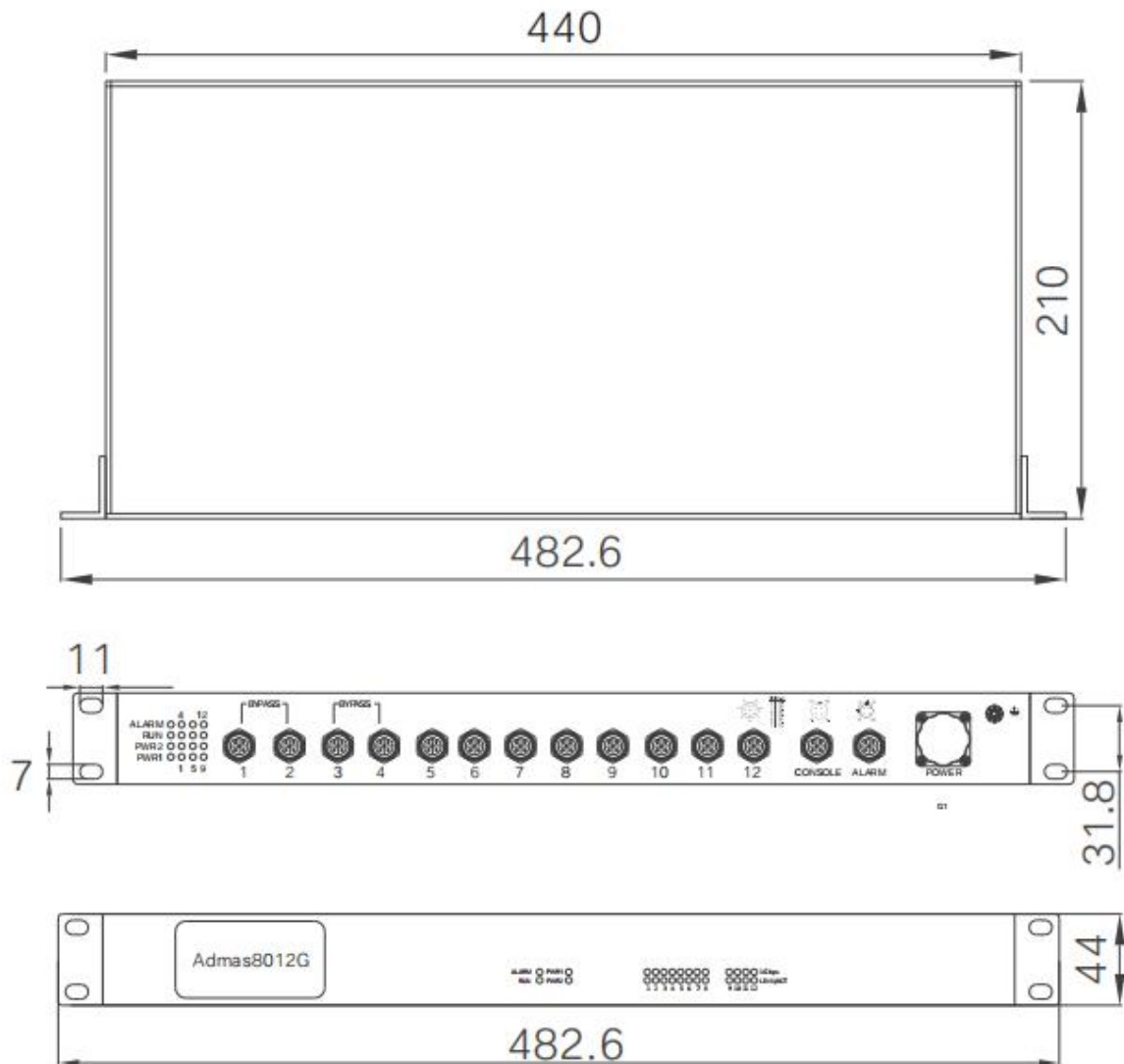
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|-----|-----------------------------|
| EMC | EN61000-4-2(ESD), Level 4 |
| | EN61000-4-3(RS), Level 4 |
| | EN61000-4-4(EFT), Level 4 |
| | EN61000-4-5(Surge), Level 4 |
| | EN61000-4-6(CS), Level 4 |
| | EN61000-4-8, Level 5 |

| | |
|---------|---------------|
| Impact | IEC60068-2-27 |
| Falling | IEC60068-2-32 |
| Shock | IEC60068-2-6 |

Warranty

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| Warranty | 5 Years |
| Certification | CE, FCC, RoHS |

Dimensional drawing



Rack mount (Unit: mm)

Ordering information

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|---------------------------|---|
| Admas8012G-M12-12GT-DC24 | 12 Gigabit M12 copper ports, DC24V(18~36V) isolate power supply |
| Admas8012G-M12-12GT-DC48 | 12 Gigabit M12 copper ports, DC48V(36~72V) isolate power supply |
| Admas8012G-M12-12GT-DC110 | 12 Gigabit M12 copper ports, DC110V(50~160V) isolate power supply |