

Aquam8012A-1U

9+3G/8+4G port Layer 2 Gigabit Managed EN50155 Industrial Ethernet Switches



» Overview

The Aquam8012A-1U series managed rack mountable onboard M12 switches, specially designed for rail industries, support up to 2 Gigabit copper ports and 8 10/100Base-TX ports. Aquam8012A-1U supports a wide range of operation temperature from -40°C to +75°C, and meets the EN50155, EN50121 and other rail industry standards. The switches support redundant ring protocols including DRP and RSTP, support VLAN and GVRP, flexible networking and partitioning, multicast, video multicast, and rich network management functions including SNMP. Aquam8012A-1U series can be widely deployed in onboard PIS, CCTV systems, and industrial applications asking for anti-vibration and high EMC performance.

» Key Features

Supports a maximum of 2 10/100/1000Base-TX and 8 10/100Base-TX ports or 10 10/100Base-TX ports

Supports M12 connectors for interface ports

Supports DT-Ring protocols, supports DRP protocols and RSTP ring network redundancy protection

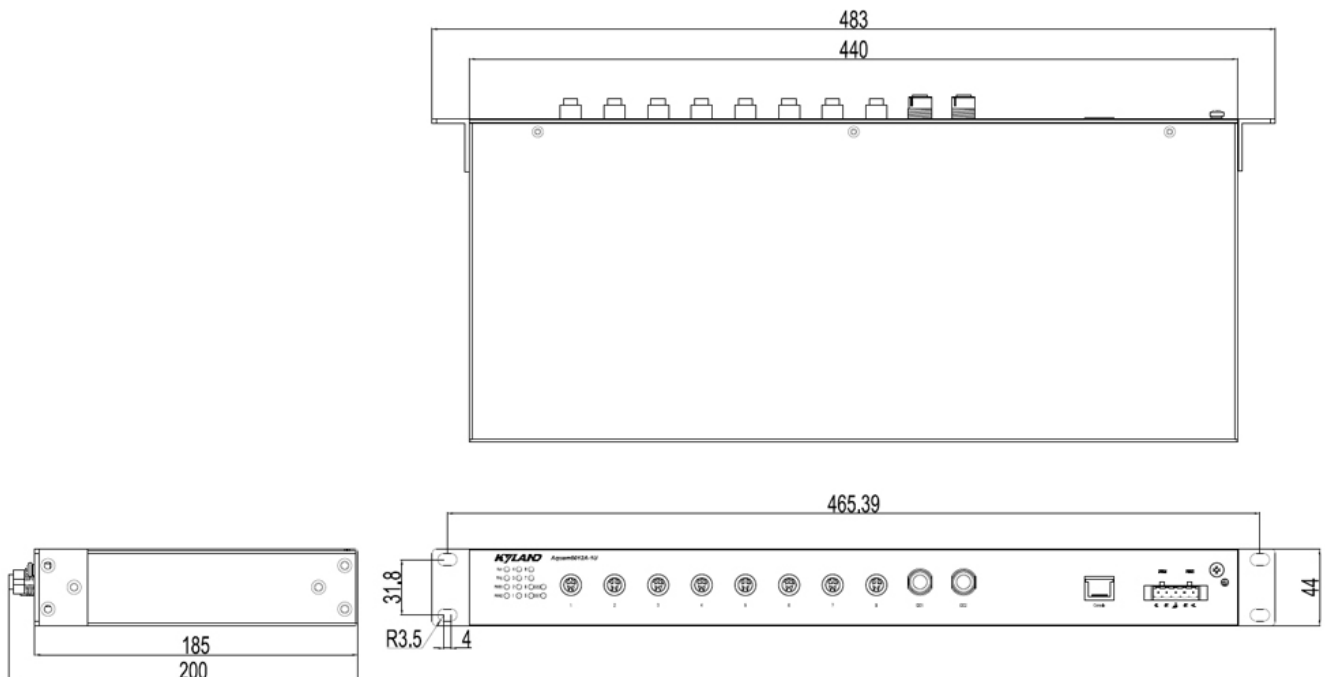
Complies with the requirements of EN50155 and EN50121 industrial standards

Product Specifications

Software functions	Switching	Supports VLAN,PVLAN,GVRP Supports port trunk Supports LACP Supports port flow control Supports speed limit, broadcast storm control
	Redundancy	Supports DRP, with the recovery time<20ms Supports STP/RSTP/MSTP DT-Ring/DT-Ring+
	Multicast	Supports IGMP-snooping Supports static multicast Supports GMRP(pending)
	Network Security	Supports user classification Supports IEEE 802.1x Supports TACACA+ Supports RADIUS Supports HTTPs, SFTP client Supports SSH
	Service Quality	Supports ACL Supports SP,WRR queue scheduling
	Management and Maintenance	Supports Console, Telnet, WEB management methods Supports SNMPv1/v2c/v3,Kyvison centralized management Supports RMON Supports software upgrade by TFTP/HTTP Supports IP/MAC conflict alarm, power supply alarm, port alarm, ring alarm Supports port mirroring Supports Syslog Supports LLDP
	IP Management	Supports DHCP server/ client/snooping option 82
	Clock management	Supports SNTP Client

Product Specifications	Standards	IEEE 802.3i(10Base-T) IEEE 802.3u(100Base-TX) IEEE 802.3ab(1000Base-T) IEEE 802.3x(Flow control) IEEE 802.1p(Class of Service) IEEE 802.1Q(VLAN) IEEE 802.1w(RSTP) IEEE 802.1X
	Switch Properties	Priority Queues 8 Number of VLANs 4094 VLAN ID 1–4093 Number of Multicast Groups 64 MAC Table 8K Packet Buffer 4Mbit Packet Forwarding Rate 4.2Mpps Switching Delay <10us
	Interface Slots	Gigabit Port 10/100/1000Base-T(X), M12 connector (X-code) Fast Ethernet Port 10/100Base-T(X), M12 connector (D-code) Console Port RS232, RJ45 port
	LED	LED on front panel Running LED: Run Ring LED: Ring Power LED: PWR1, PWR2 Interface LED: Link/ACT
	Power Requirements	Power Input 110VDC(77-110VDC) Power Terminal 5-pin 5.08 mm-spacing Power Consumption < 15W Overload Protection Support Reverse Connection Protection Support Redundancy Protection Support
	Physical Characteristics	Housing Metal Cooling Nature cooling, fanless Protection Class IP40 Dimensions 483mm×44mm×185mm Weight <3kg Mounting 1U rack mountable
	Environmental Limits	Operating Temperature -40°C to +75°C Storage Temperature -40°C to +85°C Ambient Relative Humidity 5 ~ 95% (non-condensing)
	Warranty	MTBF 2299386 hrs Warranty 5 years
	Approvals	CE(pending),EN50155(pending),EN50121(pengding)
	Industry Standard	EMI FCC CFR47 Part 15,EN55022/CISPR22,Class A EMS IEC61000-4-2 (ESD) ±6kV (contact), ±8kV (air) IEC61000-4-3 (RS) 20V/m (80MHz-2GHz) IEC61000-4-4 (EFT) Power Port: ±2kV; Data Port: ±2kV IEC61000-4-5 (Surge) Power Port: ±1kV/DM, ±2kV/CM IEC61000-4-6 (CS) 10V (150kHz-80MHz) IEC61000-4-8(Power frequency magnetic field)50Hz 100A/m IEC61000-4-9(Pulsed magnetic field)300A/m IEC61000-4-29 (Voltage Short interruptions) 10ms 100% Safety EN60950-1 Machinery IEC61373 (Vibration and Shock) IEC60068-2-32 (Free Fall)

Mechanical Drawing



Ordering Information

Aquam8012A-Ports-PS1-PS2

Port

10T 10 x 10/100BASE-T(X) M12 port

2GE8T 2 x 10/100/1000BASE-T(X) M12 port; 8 x 10/100BASE-T(X) M12 port;

PS1-PS2

H2-H2 110VDC(77-154VDC), redundant power supplies

Accessories

M12-D-4P-M 100M port connector, M12, D-Coding, 4 Pin male, 10/100Base-TX interface Connector

M12-X-8P-M Gigabit port connector, M12, X-Coding, 8 Pin male, 10/100/1000Base-TX Connector

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