

Aquam8A

8 port smart unmanaged IP65 switches



» Overview

Aquam8A supports 8 Fast Ethernet interfaces with M12 connector which ensure secure, fast, stable connection and reliable operation, especially suitable for application that are subject to high vibration and shock. Aquam8A supports panel mounting, supports IP65 protection class to meet the requirements of dustproof and waterproof performance, and meets EN50121, EN55032 and FCC CFR47 Part 15 standard requirements, Support QoS function which can allocate network bandwidth effectively, ensures a reasonable utilization of resources, making the product is suitable for the industrial field of various harsh environment, especially rail transportation and automation industry with strict requirements on reliability.

» Key Features

Supports 8 10/100Base-TX ports

Supports M12 connectors

Supports panel mounting

Supports redundant power input

Complies with the requirements of EN55032 and EN50121 industrial standards

IP65 protection class

Support QoS function

» Product Specifications

> Technical Specification

- Technical Parameter

Standard

IEEE 802.3i(10Base-T)

IEEE 802.3u(100Base-TX)

- Switch Properties

MAC Table 16K

Packet Buffer 4Mbit

Packet Forwarding Rate 1.2Mpps

Switching Delay <10 μ s

- Interface

Fast Ethernet Port 10/100Base-T(X) , M12 D-coded connector

- LED

LEDs on Front Panel Power LED: PWR1,PWR2

Interface LED: Link/ACT

- Power Requirements

Power Input 24VAC/DC(12-48VDC/18-30VAC)

Power Terminal M12

Power Consumption <3.5W

Overload Protection Support

Reverse Connection Protection Support

Redundancy Protection Support

- Physical Characteristics

Housing Metal

cooling Nature cooling, fanless

Protection Class IP65

Dimensions 74mm \times 220mm \times 50.9mm(W \times H \times D)

Weight <0.8Kg

Mounting panel mounting

-Environmental Limits

Operating Temperature -40 to +75°C

Storage Temperature -40 to +85°C

Ambient Relative Humidity 5 to 95% (non-condensing)

-Warranty

MTBF 4764262h

Warranty Period 5 years

-Approvals

CE, FCC

EMC: EN 55032, EN 55035, EN 61000-6-4, EN 61000-6-2

Rail Traffic: EN 50121

UL61010

-Industrial Standard

EMI

FCC CFR47 Part 15,EN55032/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

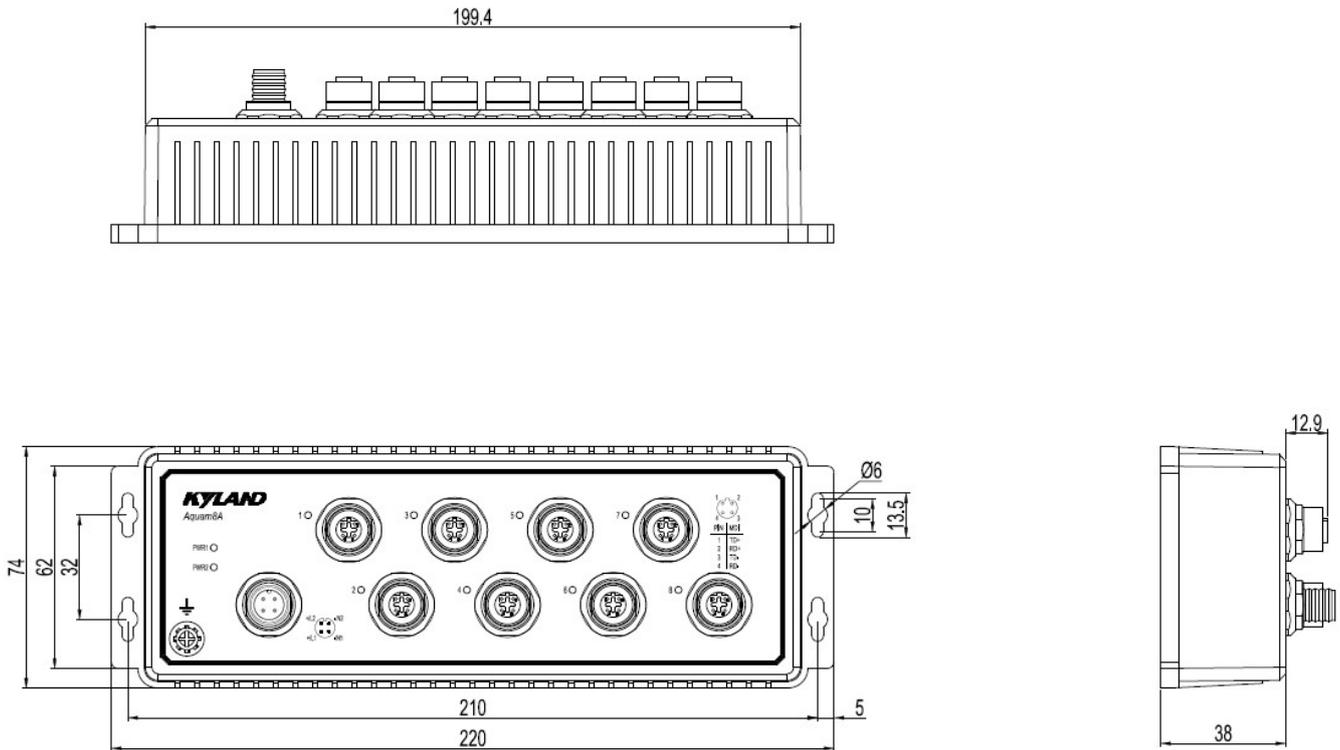
IEC61000-4-9(Pulsed magnetic field)300A/m

IEC61000-4-29 (Voltage Short interruptions) 10ms 100%

Machinery

IEC61373 (Vibration and Shock)

IEC60068-2-32 (Free Fall)



» Ordering Information

Recommended Models

Product Model Aquam8A-Ports-PS1-PS2

Code Definition Ordering Codes

Ports 8T = 8 X 10/100BASE-T(X) M12 ports

PS1-PS2 LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power inputs

Accessories

Accessory Model	Description	Note
M12-A-4P-F	Female cable connector with M12, A-Coding, 4 Pin	Power interface Connector
M12-D-4P-M	Male cable connector with M12, D-Coding, 4 Pin	10/100Base-TX interface Connector
DT-XL-PWR-M12-XXX-3m	3m connecting line with M12 connector for power ports (from M12 to the exposed end)	Power cable with M12 connector

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