

# Aquam5

## 5 Port Unmanaged EN50155 Industry Ethernet Switch



### » Overview

Aquam5 is an IP65/IP67 unmanaged Ethernet Switch, supporting 5 Fast Ethernet interfaces of with M12 connector to ensure the tightness and the firmness of the connection and ensure reliable operation, especially suitable for application that are subject to high vibration and shock. Aquam5 supports panel mounting, supports IP65/IP67 protection class to meet the requirements of dustproof and waterproof performance, supports a wide range of operation temperature(-40°C~75°C), and meets EN50155, EN50121, EN55022 Class A&B and FCC CFR47 Part 15 standard requirements, making the product is suitable for the industrial field of various harsh environment, especially rail transportation and automation industry with strict requirements on reliability.

Aquam5 switches also have E-mark certification for Vehicle applications. Such as in buses and coaches and other road vehicles.

### » Key Features

- Supports a maximum of 5 x 10/100Base-TX ports Supported M12 connectors
- Supports panel mounting Supports redundant power input
- Complies with the requirements of EN50155 and EN50121 industrial standards
- IP65/67 protection class

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## Product Specifications

### > Technical Specification

#### - Technical Parameter

Standard

IEEE 802.3i(10Base-T) IEEE

802.3u(100Base-TX)

IEEE 802.3x(Flow control)

#### - Switch Properties

MAC Table 2K Packet

Buffer 1Mbit

Packet Forwarding Rate Aquam5: 0.7Mpps Aquam8:

1.2Mpps

Switching Delay <10us

#### - 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)

110VDC (50.4-137.5VDC)

Power Terminal M12 A-coded

Power Consumption <4.6W

Overload Protection Support

Reverse Connection Protection Support

#### - Physical Characteristics

Housing Metal

cooling Nature cooling, fan less Protection

Class IP65/67

Dimensions 74mm×220mm×50.9mm(W×H×D) Weight

<0.75Kg

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 4381030h

Warranty Period 5 years

**-Approvals**

24VAC/DC Model: CE, FCC, UL61010, EN50155, EN50121, EN45545.

E-mark 

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110VDC Model: CE, FCC, EN50155, EN50121, EN45545

**-Industrial Standard**

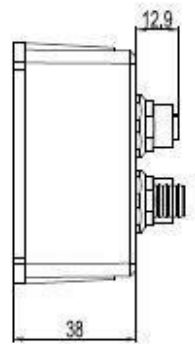
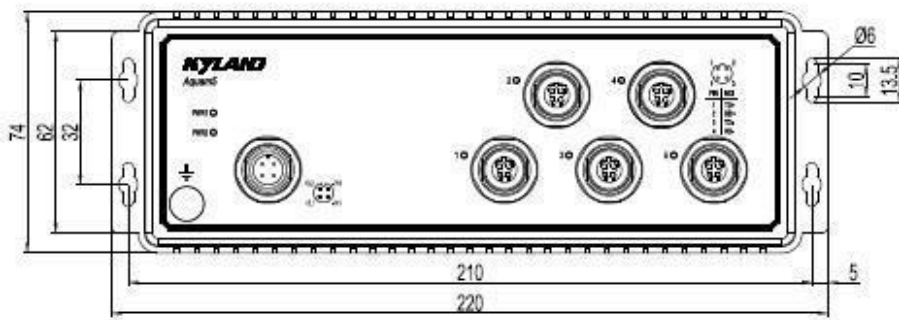
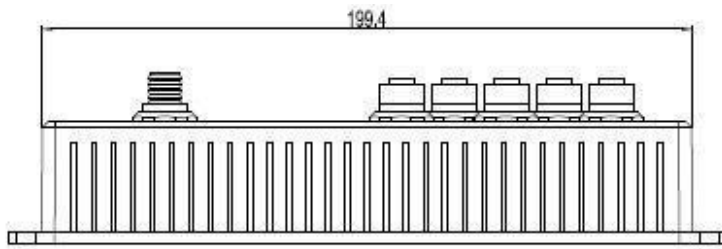
EMI

- 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

### Recommended Models

- Part No: Aquam5-5T-H6-H6**
- Part No: Aquam5-5T-LV-LV**
- Part No: Aquam5-H-5T-LV-LV**

Product Model **Aquam5-Ports-PS1-PS2**

Code Definition Ordering Codes

Ports 5T = 5 X 10/100BASE-T(X) M12D-code port

PS1-PS2

(Power Supply) LV-LV=24VAC/DC (12-48VDC/18-30 VAC), redundant power input

H6-H6=72-110VDC (50.4-137.5VDC), redundant power input

IP65 protection class

Product Model **Aquam5-H-Ports-PS1-PS2**

H: High protection class Product support IP67 protection class

Ports 5T = 5 X 10/100BASE-T(X) M12 port

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

### 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