

# Aquam5

Preliminary



## 5 Port Unmanaged EN50155 Industrial Ethernet Switch

- Supports a maximum of 5 10/100Base-TX ports
- Supports M12 connectors
- Supports DIN-Rail or panel mounting
- Supports redundant power input
- Complies with the requirements of EN50155 and EN50121 industrial standards
- IP67 protection class

### Overview

Aquam5 as IP67 and unmanaged Ethernet Switch, supports 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 two installing models of DIN-Rail and panel mounting for more flexible installation, supports 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 industry with strict requirements on reliability.

### Software Functions

#### 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	1.2Mpps
Switching Delay	<10us

#### Interface

Fast Ethernet Port	10/100Base-T(X), M12 connector
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#### LED

LEDs on Front Panel Power LED: PWR1,PWR

#### Interface

LED: Link/ACT

#### Power Requirements

Power Input	24VAC/DC(12-48VDC/18-30 VAC)
Power Terminal	M12
Power Consumption	< 3.4W
Overload Protection	Support
Reverse Connection Protection	Support

#### Physical Characteristics

Housing	Metal
cooling	Nature cooling,fanless
Protection Class	IP67
Dimensions	78mm×222mm×38mm(W×H×D)
Weight	<1.5Kg
Mounting	DIN-Rail or panel mounting

#### Environmental Limits

Operating Temperature	-40 ~+75°C
Storage Temperature	-40 ~+85°C
Ambient Relative Humidity	5-95% (non-condensing)

#### Warranty

MTBF	≥300,000 hrs
Warranty Period	5 years

#### Approvals

CE (Pending) FCC (Pending) EN50121 (Pending) EN50155 (Pending)

## Industry Standard

### EMI

- ▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A

### EMS

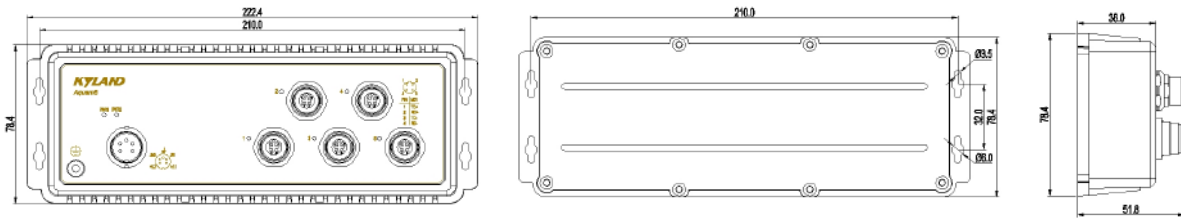
- ▼ IEC61000-4-2 (ESD)  $\pm 6\text{kV}$  (contact),  $\pm 8\text{kV}$  (air)
- ▼ IEC61000-4-3 (RS) 20V/m (80MHz-2GHz)
- ▼ IEC61000-4-4 (EFT) Power Port:  $\pm 2\text{kV}$ ; Data Port:  $\pm 2\text{kV}$
- ▼ IEC61000-4-5 (Surge) Power Port:  $\pm 1\text{kV/DM}$ ,  $\pm 2\text{kV/CM}$
- ▼ IEC61000-4-6 (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

### Aquam5-Ports-PS

#### Ports

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

#### PS

LV-LV 24VAC/DC(9-60VDC/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