# Aquam8

### Preliminary



### 8 Port Unmanaged EN50155 Industrial Ethernet Switch

- Supports a maximum of 8 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

Aquam8 as IP67 and unmanaged Ethernet Switch, supports 8 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.

### >> Technical Specification

#### **Technical Parameter**

- Standard
- IEEE 802.3i(10Base-T)
- IEEE 802.3u(100Base-TX)
- IEEE 802.3x(Flow control)

#### **Switch Properties**

MAC Table Packet Buffer Packet Forwarding Rate Switching Delay

#### 2K 1Mbit 1.2Mpps <10us

#### Interface

Fast Ethernet Port

#### LED

LEDs on Front Panel

- Power LED: PWR1,PWR
- Interface LED: Link/ACT

#### **Power Requirements**

24VAC/DC (12-48VDC/18-30 VAC)
M12
< 4.6W
Support
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 Storage Temperature Ambient Relative Humidity -40 -+75°C -40 -+85°C 5-95% (non-condensing)

≥300,000 hrs

5 years

#### Warranty

MTBF Warranty Period

#### Approvals

CE (Pending), FCC (Pending), EN50155 (Pending), EN50121 (Pending) For the latest information, please visit the website of Kyland

<sup>10/100</sup>Base-T(X),M12 connector

#### **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)

KYLAND

- IEC61000-4-8(Power frequency magnetic field)50Hz 100A/m
- >> Mechanical Drawing



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

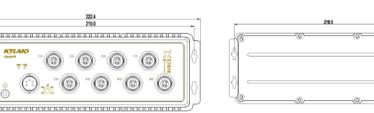
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Safety

**V** EN60950-1

- Machinery
- IEC61373 (Vibration and Shock)
- IEC60068-2-32 (Free Fall)



## >> Ordering Information

	Aquam8-Ports-PS
Ports	
8T	8 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 cable with M12 connector
	power ports (from M12 to the exposed end)	