

Aquam5S/8S

5/8 Port Unmanaged EN50155 PoE Industrial Ethernet Switches



- Support a maximum of 5 or 8 10/100Base-TX ports
- Support M12 connectors with D code for Fast Ethernet ports
- Support 5/8 PoE/PoE+ (IEEE 802.3af/at) ports
- Support redundant power inputs
- Complies with the requirements of EN50155 and EN50121 industrial standards
- IP65 protection class

Overview

As unmanaged EN50155 industrial Ethernet switches, Aquam5S/8S support 5 or 8 Fast Ethernet PoE/PoE+ (IEEE 802.3af/at) ports with M12 connector to ensure the tightness and the firmness of the connection and ensure the reliable operation which are especially suitable for applications subjected to high vibration and shock. The Aquam5S/8S have a wide operation temperature of -40°C to 75°C and support panel mounting. The IP65 protection class meets the requirements of dustproof and waterproof performance. The Aquam5G/8G fulfill EN50155, EN50121, EN55022 Class A&B and FCC CFR47 Part 15 standards which makes the products suitable for the industrial field of various harsh environment, especially rail transportation and automation industry with strict requirements on reliability.

Technical Specification

Technical Parameters

Standard

- ▼ IEEE 802.3i(10Base-T)
- ▼ IEEE 802.3u(100Base-TX)
- ▼ IEEE 802.3af(PoE)
- ▼ IEEE 802.3at(PoE+)

Switch Properties

MAC Table	16K
Packet Buffer	2Mbit
Packet Forwarding Rate	Aquam8S: 1.2Mpps Aquam5S: 0.7Mpps
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
- ▼ PoE LED: ACT

Power Requirements

Power Input	24-110VDC (16.8-154VDC)
Power Terminal	M23
Power Consumption	11.8W@5W(without PD) 140W@MAX(with 80W PD)
Overload Protection	Support
Reverse Connection Protection	Support

Physical Characteristics

Housing	Metal
cooling	Nature cooling,fanless
Protection Class	IP65
Dimensions	238mm×100mm×89.6mm(W×H×D)
Weight	<1.9Kg
Mounting	panel mounting

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	2092908h
Warranty Period	5 years

Industry Standard

EMI

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

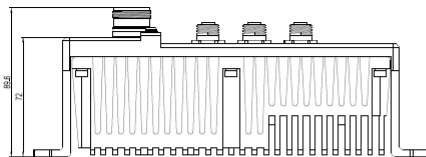
EMS

- ▼ 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

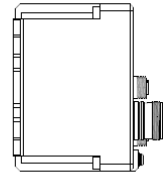
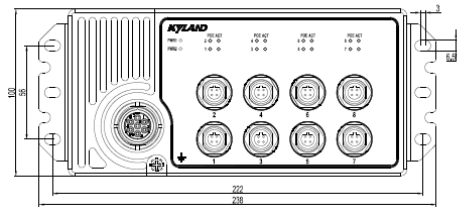
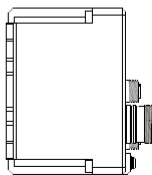
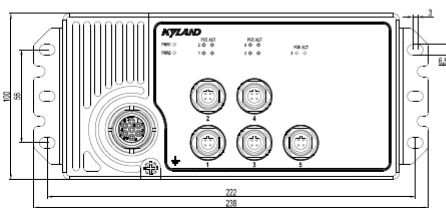
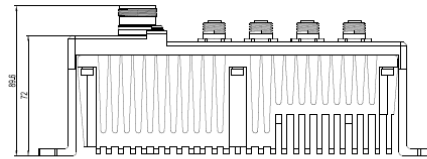
- ▼ IEC61000-4-6 (CS) 10V (150kHz-80MHz)
 - ▼ IEC61000-4-8 (Power frequency magnetic field) 50Hz 100A/m
 - ▼ IEC61000-4-9 (Pulsed magnetic field) 300A/m
 - ▼ IEC61000-4-29 (Voltage Short interruptions) 10ms 100%
- Safety
- ▼ EN60950-1
- Machinery
- ▼ IEC61373 (Vibration and Shock)
 - ▼ IEC60068-2-32 (Free Fall)

Mechanical Drawing

Aquam5S panel mounting dimensions (mm)



Aquam8S panel mounting dimensions (mm)



Ordering Information

Aquam5S-Ports-PS1-PS2

Ports

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

PS1-PS2 (Power Supply)

WW-WW 24-110VDC(16.8-154VDC), redundant power input

Aquam8S-Ports-PS1-PS2

Ports

8P 8 X 10/100BASE-T(X) M12 PoE port

PS1-PS2 (Power Supply)

WW-WW 24-110VDC(16.8-154VDC), redundant power input

Accessories

Accessory Model

Description

Note

M23-A-5P-F
M12-D-4P-M

Female cable connector with M23, A-Coding, 5 Pin
Male cable connector with M12, D-Coding, 4 Pin

Power interface Connector
10/100Base-TX interface Connector