

Aquam5S/8S/9S 5/8/8+1G port unmanaged PoE IP65 EN50155 switches



>>> Overview

Aquam5S/8S/9S as unmanaged Ethernet Switch, supports 5/8 Fast Ethernet or 1 Gigabit and 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. Aquam5S/8S/9S supports panel mounting, supports IP65 protection class to meet the requirements of dustproof and waterproof performance, supports a wide range of operation temperature(-40°C~70°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.

The Aquam5S/8S/9S supports PoE function, provide 5 or 8 fast Ethernet M12 ports with IEEE 802.3at compliant PoE+ (compatible with IEEE802.3af), and can be used to power up to 8 IEEE 802.3at compliant powered devices (PDs), eliminating the need for additional wiring. The switches are classified as power source equipment (PSE) and provide standard IEEE802.3at and IEEE802.3af, with PoE power up to 30 watts per port.

>> Key Features

Supports a maximum of 5 or 8 10/100Base-TX ports or 1 Gigabit +8 10/100 Base-TX prots Supports M12 connectors with D code for Fast Ethernet ports and X code for Gigabit ports



Supports POE with IEEE802.3af and IEEE802.3at standards, as well as a maximum of 5 or 8 POE ports

Supports panel mounting

Supports redundant power input

Complies with the requirements of EN50155 and EN50121 industrial standards

IP65 protection class

Product Specifications

>Technical Specification -Technical Parameter

Standard IEEE 802.3i(10Base-T) IEEE 802.3u(100Base-TX) IEEE 802.3af(PoE) IEEE 802.3at(PoE+) IEEE 802.3ab(1000Base-T)(Aquam9S Only)

-Switch Properties

- MAC Table 16K
- Packet Buffer 4Mbit

Packet Forwarding Rate

- Aquam9S: 2.7Mpps
- Aquam8S: 1.2Mpps
- Aquam5S: 0.7Mpps
- Switching Delay <10us

-Interface

Fast Ethernet Port 10/100Base-T(X) , M12 D-coded connector Gigabit Ethernet Port 10/100/1000Base-T(X), M12 X 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@SW(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 to +70°C Storage Temperature -40 to +85°C Ambient Relative Humidity 5 to 95% (non-condensing)

-Warranty

MTBF 2092908h

Warranty Period 5 years

-Approvals

CE, FCC, EN50121, EN50155, EN45545, EN60950, E mark

-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)



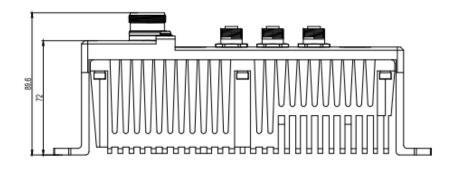
IEC61000-4-4 (EFT) Power Port: ±2kV; Data Port: ±2kV IEC61000-4-5 (Surge) Power Port: ±1kV/DM, ±2kV/CM IEC61000-4-6 (CS) 10V (150kHz-80MHz) IEC61000-4-8(Power frequency magnetic field)50Hz 100A/m IEC61000-4-9(Pulsed magnetic field)300A/m IEC61000-4-29 (Voltage Short interruptions) 10ms 100%

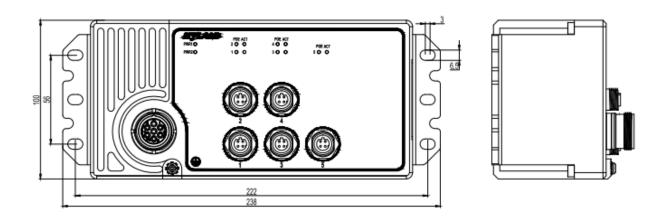
Safety EN60950-1

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



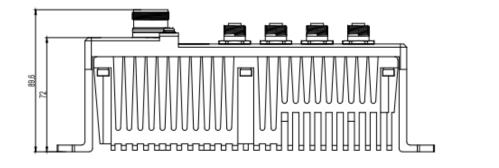
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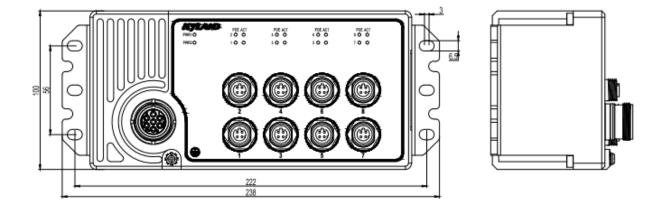




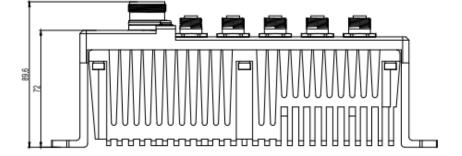
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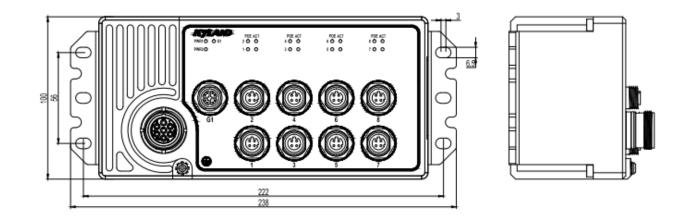
Aquam8S





Aquam9S







Ordering Information

Product Model	Aquam5S-Ports-PS1-PS2
Code Definition	Ordering Codes
Ports	5P = 5 X 10/100BASE-T(X) M12 PoE ports
Product Model	Aquam8S-Ports-PS1-PS2
Ports	8P = 8 X 10/100BASE-T(X) M12 PoE ports
Product Model	Aquam9S-Ports-PS1-PS2
Ports	1GE8P = 1X 10/100/1000Bsase-T(X) M12 ports, 8 X 10/100BASE-T(X) M12 PoE ports
PS1-PS2 (Power Supply)	WV-WV=24-110VDC(16.8-154VDC), redundant power inputs



KYLAN



Accessories

Accessory Model Descript M23-5P-F-Crimp Female M12-D-4P-M Male ca M12-X-8P-M Male ca

Description

Female cable connector with M23, 5 Pin , Crimp Male cable connector with M12, D-Coding, 4 Pin Male cable connector with M12, X-Coding, 8 Pin Note Power interface Connector 10/100Base-TX interface Connector 10/100/1000Base-TX interface Connector

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