



Aquam8

8 Port Unmanaged EN50155 Industry Ethernet Switch







Overview

Aquam8 as IP65 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. Aquam5/8 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~75°C), and meets EN50155, EN50121, EN55022 Class A&B and FCC CFR47 Part 15 standard requirements, making the product is suitable for theindustrial field of various hars h environment, especially rail transportation and automation industry with strict requirements on reliability.

Aquam8 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 8 x 10/100Base-TX ports Supported M12 connectors
Supports panel mounting Supports
Redundant power inputs
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



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

-Industrial Standard

EMI

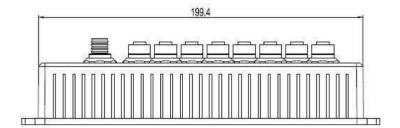
FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS IEC61000-4-2 (ESD)±6kV(contact), ±8kV (air) IEC61000-4-3 (RS) 20V/m (80MHz-2GHz) IEC61000-4-4 (EFT) Power Port: ±2kV; Data Port: ±2kV IEC61000-4-5 (Surge) Power Port: ±1kV/DM, ±2kV/CM IEC61000-4-6 (CS) 10V (150kHz-80MHz) IEC61000-4-8(Power frequency magnetic field)50Hz 100A/m IEC61000-4-9(Pulsed magnetic field)300A/m IEC61000-4-29 (Voltage Short interruptions) 10ms 100% Safety EN60950-1

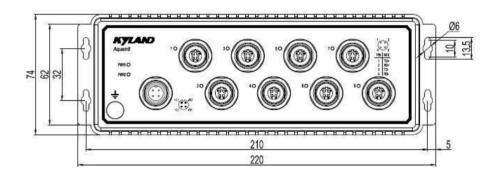
Machinery IEC61373 (Vibration and Shock) IEC60068-2-32 (Free Fall)

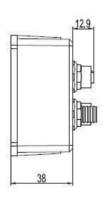




Mechanical Drawing









Ordering Information

Recommended Models

Part No: Aquam8-8T-H6-H6 Part No: Aquam8-8T-LV-LV Part No: Aquam8-H-8T-LV-LV

Product Model Aquam8-Ports-PS1-PS2

Code Definition Ordering Codes

Ports 8T = 8 X 10/100BASE-T(X) M12 D-coded port

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

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

IP65 protection class

Product Model Aquam8-H-Ports-PS1-PS2

Industrial Communication Products Ltd

H: High protection Product supports IP67 protection class class

Ports $8T = 8 \times 10/100BASE-T(X) M12 port$

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

(Power Supply)

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