

# Aquam8G

## 8port Gigabit Port Unmanaged EN50155 Industrial Ethernet Switches



### Overview

As IP65 EN50155 unmanaged industrial Ethernet switches, the Aquam8G supports 8 x 1000Base -T Ethernet interfaces with M12 connector to ensure the tightness and the firmness of the connection and ensure reliable operation. They are especially suitable for applications subjected to high vibration and shock. The Aquam5G/8G 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.

Aquam8G 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 10/100/1000Base-T(X) ports
- Supports M12 connectors with X coded for Gigabit ports
- Supports redundant power inputs
- Complies with the requirements of EN50155 and EN50121 industrial standards IP65 protection class

CE, FCC certification

 **Product Specifications****>Technical Specification****-Technical Parameter**

Standard

IEEE 802.3i(10Base-T) IEEE

802.3u(100Base-TX) IEEE

802.3ab(1000Base-T)

**-Switch Properties**

MAC Table 16K Packet

Buffer 2Mbit

Packet Forwarding Rate 11.9Mpps

Length of Jumbo 10K Bytes Switching

Delay <10us

**-Interface**

Fast Ethernet Port

10/100/1000Base-T(X), M12 connector

**-LED**

LEDs on Front Panel Power

LED: PWR1, PWR2

Interface LED: Link/ACT

**-Power Requirements**

Power Input

24VDC (16.8-30VDC)- L13-L13

variant

110VDC (50.4-137.5VDC) - H6-H6

variant

Power Terminal M12

Power Consumption 5.6W@24VDC

7.1W@110VDC

Overload Protection Support

Reverse Connection Protection Support

**-Physical Characteristics**

Housing Metal

cooling Nature cooling, fan less

Protection Class IP65

Dimensions 74mm×220mm×50.9mm(W×H×D) Weight <0.9Kg

Mounting: Ppanel mounting

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## -Environmental Limits

Operating Temperature -40 to +75°C Storage  
Temperature -40 to +85°C

Ambient Relative Humidity 5 to 95% (non-condensing)

## -Warranty

MTBF 2388722h

Warranty Period 5 years

## -Approvals

24VDC models: CE, FCC, EN50155, EN50121, EN45545,

E mark 

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110VDC models: 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)

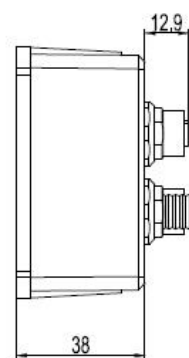
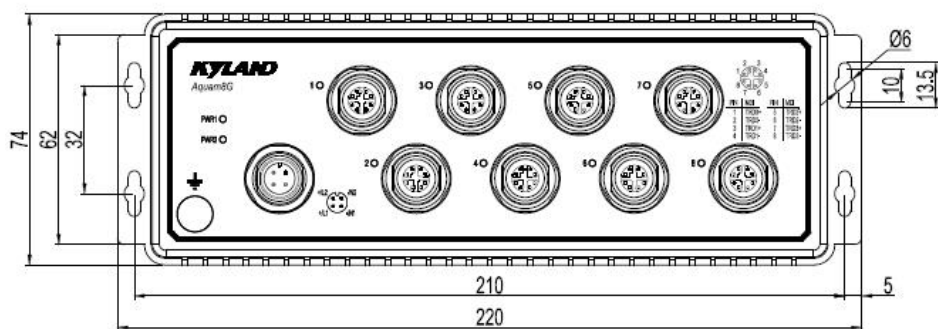
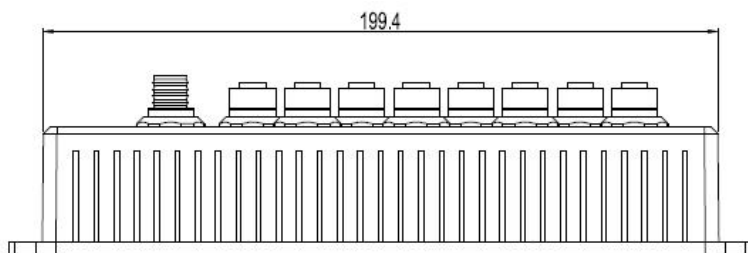
IEC60068-2-32 (Free Fall)

# ICP Datatec

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» **Mechanical Drawing**




**Ordering Information**
**Ordering Information****Part No: Aquam8G-8GE-H6-H6****Part No: Aquam8G-8GE-L13-L13**

Product Model	Aquam8G-Ports-PS1-PS2
Ports	8G = 8 X 10/100/1000BASE-T(X) M12 X-coded port
PS1-PS2 (Power Supply)	H6-H6=72-110VDC (50.4-137.5VDC), redundant power inputs L13-L13=24VDC (16.8-30VDC), redundant power inputs

**Accessories**

Accessory Model	Description	Note
M12-A-4P-F	Female cable connector with M12, A-Coding, 4 Pin	Power interface Connector
M12-X-8P-M	Male cable connector with M12, X-Coding, 8 Pin	10/100/1000Base-T (X) 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