

# Aquam5G/8G

## 5/8G Port Unmanaged EN50155 Industrial Ethernet Switches





As IP65 EN50155 unmanaged industrial Ethernet switches, the Aquam5G/8G support 5/8 1000M 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.

# Xey Features

Supports a maximum of 5/8 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)

110VDC(50.4-137.5VDC)

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, fanless

**Protection Class IP65** 

Dimensions 74mm×220mm×50.9mm(W×H×D)

Weight < 0.9Kg



#### 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 2388722h

Warranty Period 5 years

#### -Approvals

**CE,FCC** certification

#### -Industrial Standard

**EMI** 

FCC CFR47 Part 15,EN55022/CISPR22,Class A

**EMS** 

IEC61000-4-2 (ESD)  $\pm$ 6kV (contact),  $\pm$ 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

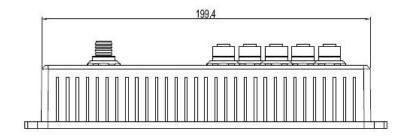
Machinery

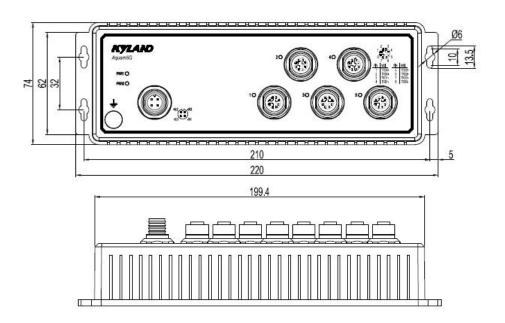
IEC61373 (Vibration and Shock)

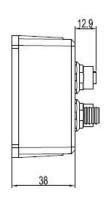
IEC60068-2-32 (Free Fall)

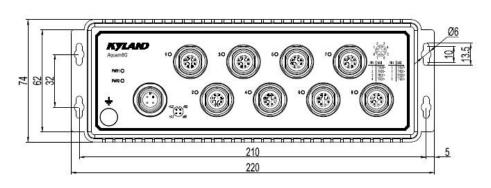


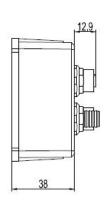














# >>> Ordering Information

### **Ordering Information**

Product Model Aquam5G-Ports-PS1-PS2

Code Definition Ordering Codes

5G= 5 X 10/100/1000BASE-T(X) M12 port **Ports** 



PS1-PS2 (Power H6-H6=72-110VDC(50.4-137.5VDC), redundant power inputs Supply) L13-L13=24VDC(16.8-30VDC), redundant power inputs

Product Model Aquam8G-Ports-PS1-PS2

Ports  $8G = 8 \times 10/100/1000BASE-T(X) M12 port$ 

PS1-PS2 (Power H6-H6=72-110VDC(50.4-137.5VDC), redundant power inputs

Supply) L13-L13=24VDC(16.8-30VDC), redundant power inputs

#### **Accessories**

Accessory Model	Description	Note
	Female cable connector with M12, A-Coding, 4 Pin	Power interface Connector
	Male cable connector with M12, X- Coding, 8 Pin	10/100/1000Base-T(X )interface Connector
DT-XL-PWR-M12-XXX-3m	iconnector for nower ports (from	Power cable with M12 connector

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