

Aquam5G/8G

5G/8G port unmanaged IP65 EN50155 switches



» Overview

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.

» Key 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

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

110VDC models: CE, FCC, EN50155, EN50121, EN45545, EN60950

IEC 60950-1, EN 60950-1

-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

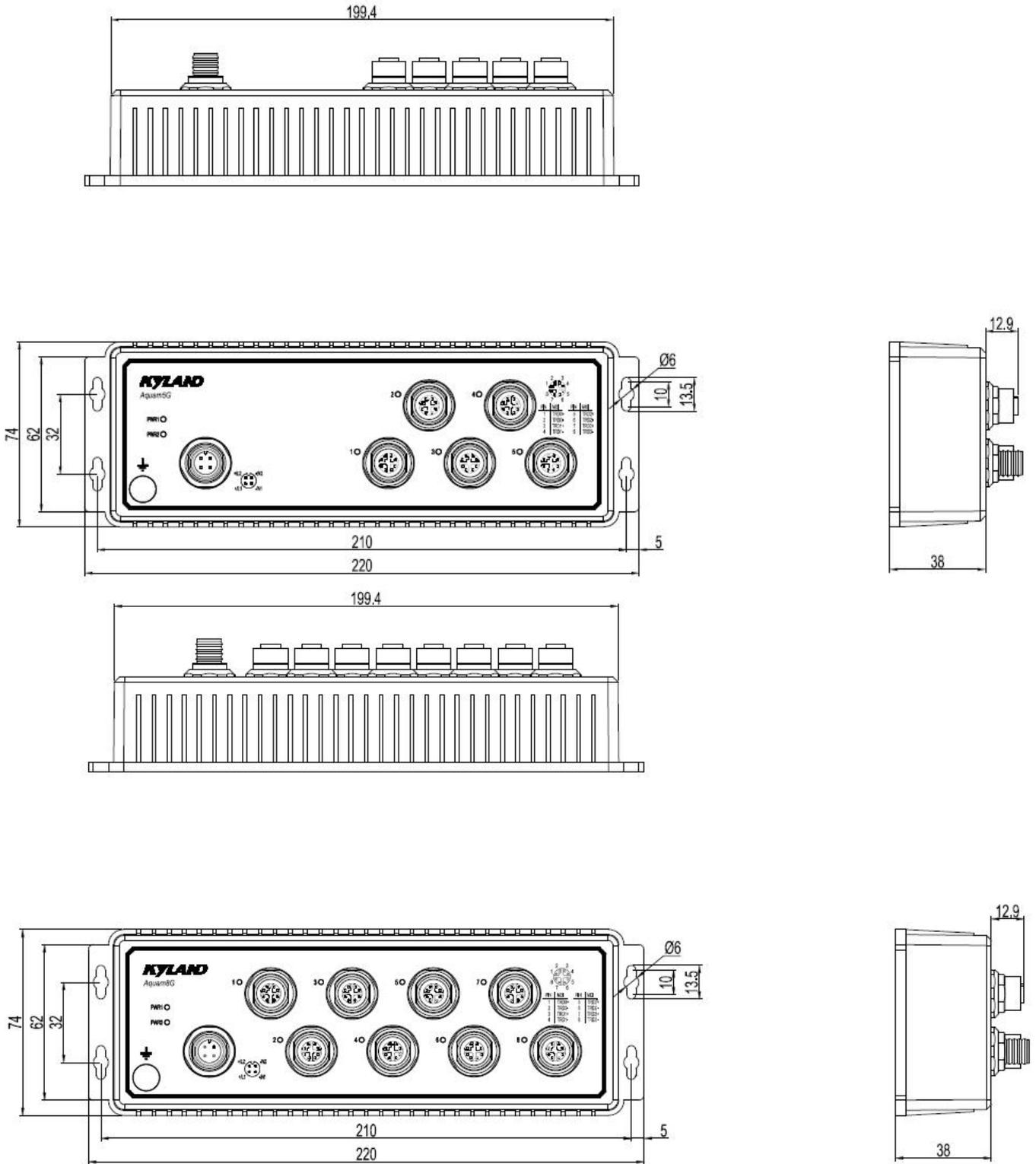
EN60950-1

Machinery

IEC61373 (Vibration and Shock)

IEC60068-2-32 (Free Fall)

➤ Mechanical Drawing



➤ Ordering Information

Ordering Information

Product Model Aquam5G-Ports-PS1-PS2

Code Definition Ordering Codes

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

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

Product Model Aquam8G-Ports-PS1-PS2

Ports 8G = 8 X 10/100/1000BASE-T(X) M12 ports

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-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

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