

Aquam5G/8G

5G/8G Port Unmanaged EN50155 Industrial Ethernet Switches



- 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

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.

Technical Specification

Technical Parameters

- 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°C to +75°C
Storage Temperature	-40°C to +85°C
Ambient Relative Humidity	5-95% (non-condensing)

Warranty

MTBF	2388722h
Warranty Period	5 years

Industry Standard

EMI

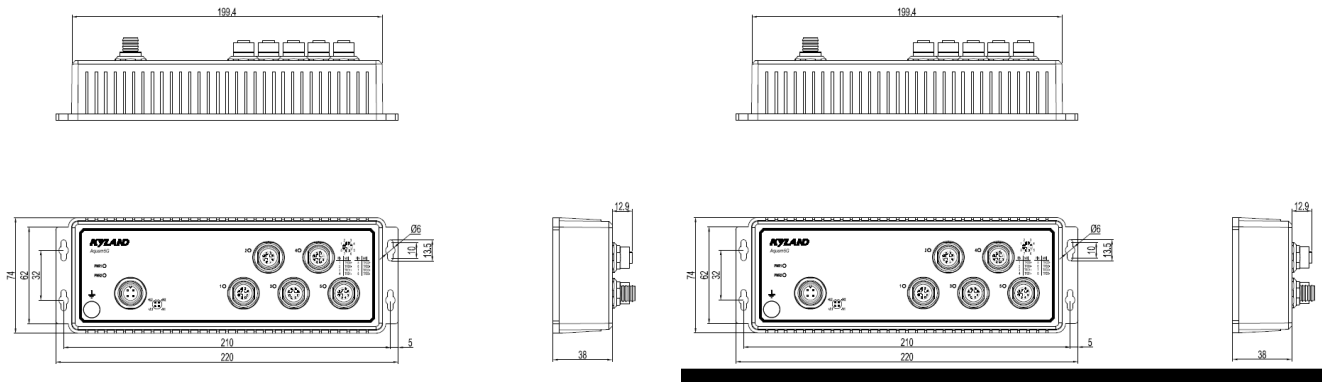
- ▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A

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

Aquam5G-Ports-PS1-PS2

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

Aquam8G-Ports-PS1-PS2

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