Aquam8

8 Port Unmanaged EN50155 Industrial Ethernet Switches

- Supports a maximum of 8 10/100Base-TX ports
- Supports M12 connectors
- Supports panel mounting
- Supports redundant power input
- Complies with the requirements of EN50155 and EN50121 industrial standards
- IP65/67 protection class

Overview

Aquam8 as IP65/67 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 supports panel mounting, supports IP65/67 protection class to meet the requirements of dustproof and waterproof performance, supports a wide range of operation temperature(-40°C to 75°C), and meets EN50155, EN50121, EN55022 Class A&B and FCC CFR47 Part 15 standard requirements, making the product is 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 802.3x(Flow control)

Switch Properties

MAC Table	2K
Packet Buffer	1Mbit
Packet Forwarding Rate	1.2Mpps
Switching Delay	<10us

Interface

Fast Ethernet Port	10/100Base-T(X),M12 connector

LED

LEDs on Front Panel
- Power LED: PWR1,PWR
- Interface LED: Link/ACT

Power Requirements

Power Input	24VAC/DC (12-48VDC/18-30 VAC)
Power Terminal	M12
Power Consumption	< 4.6W
Overload Protection	Support
Reverse Connection Protection	Support

Physical Characteristics

Housing	Metal
cooling	Nature cooling,fanless
Protection Class	IP65/67
Dimensions	74mm×220mm×38mm(W×H×D)
Weight	<1.5Kg
Mounting	DIN-Rail or panel mounting

Environmental Limits

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

Warranty

MTBF	≥300,000 hrs
Warranty Period	5 years

Approvals

CE FCC UL61010 EN50155 EN50121
For the latest information, please visit the website of Kyland

Industry Standard

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

EMS
- IEC61000-4-2 (ESD) ±6kV (contact), ±8kV (air)

Version: V1.1

- 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%

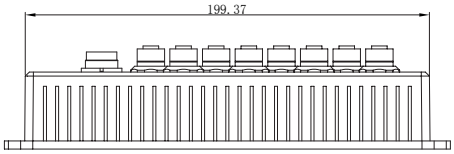
Safety

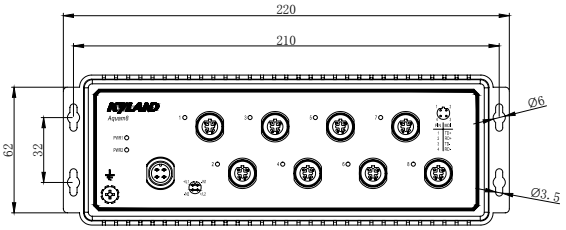
- EN60950-1

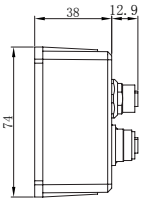
Machinery

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

Mechanical Drawing







Ordering Information

	Aquam8-Ports-PS1-PS2
Ports	
8T	8 X 10/100BASE-T(X) M12 port
PS1-PS2	
LV-LV	24VAC/DC(9-60VDC/18-30 VAC), redundant power input

	Aquam8-H-Ports-PS1-PS2
H	
High protection class	Product support IP67 protection class, while others without this mark support IP65 protection class
Ports	
8T	8 X 10/100BASE-T(X) M12 port
PS1-PS2	
LV-LV	24VAC/DC(12-48VDC/18-30 VAC), redundant power input

	Aquam8-N-Ports-PS1-PS2
N	
Neutral	The product appearance without kyland logo
Ports	
8T	8 X 10/100BASE-T(X) M12 port
PS1-PS2	
LV-LV2	4VAC/DC(12-48VDC/18-30 VAC), redundant power input

	Aquam8-NH-Ports-PS1-PS2
H	
High protection class	Product support IP67 protection class, while others without this mark support IP65 protection class; Product appearance without kyland logo;
Ports	
8T	8 X 10/100BASE-T(X) M12 port
PS1-PS2	
LV-LV	24VAC/DC(12-48VDC/18-30 VAC), redundant power input

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