

Aquam8

8 Port Unmanaged EN50155 Industry Ethernet Switch



» Overview

Aquam8 as IP65 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. Aquam5/8 supports panel mounting, supports IP65 protection class to meet the requirements of dustproof and waterproof performance, supports a wide range of operation temperature(-40°C~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.

Aquam8 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 10/100Base-TX ports Supported M12 connectors
- Supports panel mounting Supports
- Redundant power inputs
- Complies with the requirements of EN50155 and EN50121 industrial standards IP65/67 protection class

ICP Datatec
a Sales division of Industrial Communication Products Ltd

www.icpdatatec.com
sales@icpdatatec.com

Product Specifications

>Technical Specification

-Technical Parameter

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 Aquam5: 0.7Mpps Aquam8:

1.2Mpps

Switching Delay <10us

-Interface

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

-LED

LEDs on Front Panel Power LED: PWR1, PWR2

Interface LED: Link/ACT

-Power Requirements

Power Input 24VAC/DC (12-48VDC/18-30VAC)

110VDC (50.4-137.5VDC)

Power Terminal M12 A-coded

Power Consumption <4.6W

Overload Protection Support

Reverse Connection Protection Support

-Physical Characteristics

Housing Metal

cooling Nature cooling, fan less Protection

Class IP65/67

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

<0.75Kg

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 4381030h

Warranty Period 5 years

-Approvals

24VAC/DC Model: CE, FCC, UL61010, EN50155, EN50121, EN45545

E-mark 

110VDC Model: 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)

Ordering Information

Recommended Models

Part No: Aquam8-8T-H6-H6
 Part No: Aquam8-8T-LV-LV
 Part No: Aquam8-H-8T-LV-LV

Product Model Aquam8-Ports-PS1-PS2
 Code Definition Ordering Codes

Ports 8T = 8 X 10/100BASE-T(X) M12 D-coded port

PS1-PS2 (Power Supply) LV-LV=24VAC/DC (12-48VDC/18-30 VAC), redundant power input
 H6-H6=72-110VDC (50.4-137.5VDC), redundant power input
 IP65 protection class

Product Model Aquam8-H-Ports-PS1-PS2

H: High protection class Product supports IP67 protection class

Ports 8T = 8 X 10/100BASE-T(X) M12 port

PS1-PS2 (Power Supply) 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