

# JetNet 3006-M12

## Industrial 6-Port Unmanaged M12/IP68 Ethernet Switch



CE FC  RoHS

- Environmentally sealed by IP68 grade protection and ultra rugged enclosure for toughest industrial usages
- Six 10/100 TX auto-negotiation ports with IP68 grade M12 D-coded connectors
- Rugged power interface by M12 connector

### Overview

The JetNet 3006-M12 10/100 Base-TX Ethernet switch, is specifically designed for the toughest industrial environments. JetNet 3006-M12 is constructed of a rugged weather tight aluminum case and designed with six IP68 rated M12 Ethernet ports, which provide a waterproof, and dust-tight

connection. The JetNet 3006-M12 can be easily adopted in almost all kinds of applications and provides the most rugged solutions for your network in outdoor, offshore, railway, moving vehicles, factory automation, coal mines, petrochemical factories, food/beverage industries and plant floors.

### Ultra-Rugged, Ultra Long-life Enclosure

JetNet 3006-M12 is designed ultra rugged for the toughest industrial usage. The enclosure is made of strong, corrosion resistant, and noncombustible aluminum case. Each enclosure is designed with a thick 50mm top face plate, which makes JetNet 3006-M12 able to survive from constant shock and heavy impact. The aluminum case protects JetNet 3006-M12 against corrosion in environments such

as, offshore, coal mines, and petrochemical factories. The noncombustible property of the case also ensures that the JetNet 3006-M12 will not emit toxic fumes when exposed to extreme high temperatures. This is the most suitable device for applications where hygiene requirements are a real concern, such as food processing, beverage bottling or pharmaceutical manufacturing.

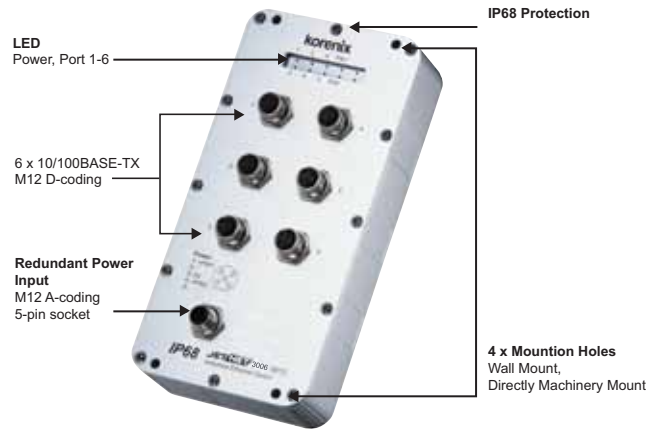
# IP67/IP68 Industrial Ethernet Switch

## Rugged M12 Robust Connection with IP68 Protection

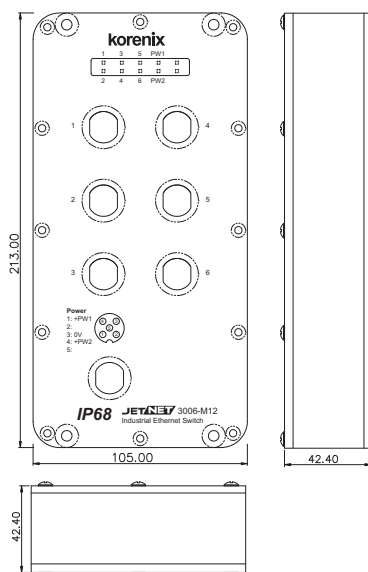
Commercial RJ45 connectors are not designed for harsh environment and usually experienced to link failure and data loss under heavy industrial usages. JetNet 3006-M12 replaces the commercial RJ45 connectors with rugged IP68 grade M12 connectors for greater protection against water and dust to eliminate link lost or data failure from constant wash

down, vibration and shock. The connector can be assembled with a STP (Shield Twisted Pair) cable to protect data transmission from EMI disturbances. With this robust enhancement, the JetNet 3006-M12 guarantees a reliable connection and data integrity for harsh environment usages.

## JetNet 3006-M12 Appearance



## Dimensions (Unit –mm)



Industrial  
PoE Switch

IP67/68  
Ethernet Switch

Rackmount  
Managed  
Switch

Gigabit Switch

Redundant  
Switch

Entry-Level  
Switch

Networking  
Computer

Communication  
Computer

Ethernet  
I/O Server

Serial Device  
Server

Media  
Converter

Multiport  
Serial Card

SFP Module

Din Rail  
Power Supply

## Specification

### Technology

**Standard:**

IEEE 802.3 10Base-T  
IEEE 802.3u 100Base-TX  
IEEE 802.3x Flow Control and Back-pressure  
Broadcast storm control

### Performance

**Switch Technology:**

Store and Forward Technology with 3.2Gbps wire-speed non-blocking Switch Fabric

**System Throughput:** 1.785Mpps**MAC Address:** 2000**Packet Buffer:** Embedded 1Mbits shared buffer**Transfer performance:** 14,880pps for Ethernet and 148,810pps for Fast Ethernet**Transfer packet size:** from 64 to 1536Bytes

### Interface

**Number of Ports:**

6 x 10/100Base-TX ports

**Connectors:**

10/100TX: M12 D-coding 4-pin socket

Power: M12 A-coding 5-pin connector

**Cable:**

10/100 Base-TX: 2-pair cable

**Diagnostic LED:**

Power LED: Power 1/Power 2 (Green)

Fast Ethernet Port 1~6: Link (Green)/Activity (Green blinking).

### Power Requirements

**Power Consumption:**

Operating Voltage: 12 to 48V DC

Power consumption: max 6 Watts @ 48V

### Mechanical

**Protection class: IP68****Installation:** Wall mount**Case:** Aluminum metal case**Dimension:** 213.6 mm (H) x 106.0 mm (W) x 56.5 mm (D)**Weight:** 1095 g without package

### Environmental

**Operating Temperature:** -25 ~ 70°C**Storage Temperature:** -40 ~ 85°C

### Regulatory Approvals

**DNV:** pending**EN 50155 Railway:** compliance**Safety:** CE/EN60950**EMI:**

FCC Class A; CE/EN55022:2003 Class A;

CE/EN61000-3-2:2001 Harmonic Test;

CE/EN61000-3-3:1995 Flicker test

**EMS:**

EN61000-4-2:1998,ESD

EN61000-4-3:1998, RS

EN61000-4-4:1995, EFT

EN61000-4-5:1995, Surge

EN61000-4-6:1996, CS

EN61000-4-8:PFM

**Shock:** IEC60068-2-27**Vibration:** IEC60068-2-6**Free Fall:** IEC60068-2-32**Warranty:** 5 years

## Ordering Information

### JetNet 3006--M12 Industrial 6-port Unmanaged M12/IP68 Ethernet Switch

Includes:

- JetNet 3006-M12
- M12 D-coding 4-pin to RJ45 STP cable x 1
- Field assembleable M12 A-coding 5-pin connector x 1
- Cap of M12 D-coding 4-pin socket x 6
- Cap of M12 A-coding 5-pin connector x 1
- Mounting Screws x 4
- Quick Installation Guide
- CD User Manual