

## JetNet 2006-M12 Industrial 6-Port M12 Ethernet Switch



- M12 Connector for anti-vibration and shock
- Six 10/100 TX auto-negotiation ports
- Redundant Power Inputs DC 24V (12~48) by M12 connector
- 3.2 Gbps switch fabric with excellent data exchange performance
- Broadcast storm control
- IEEE802.1p for Class of Service (CoS)
- -25~70°C operating temperature for hazardous environment application
- DNV Approval applying
- Railway EN50155 compliance

### Overview

The JetNet 2006-M12 10/100 Base-T Ethernet switch is specifically designed for environments with severe vibrations and shocks. It has a metal casing and equipped with six M12 D-coding connectors that provide reliable connection despite vibrations and shocks. The JetNet 2006-M12 is ready-to-use and it features

IEEE 802.1p Class of Service, the broadcast storm control for better transmission performance. It can be installed easily using either DIN-rail mount or wall-mount. The JetNet 2006-M12 is a rugged, easy-to-use, and cost effective solution, and it is the best choice for use on boats, trains, moving vehicles, or heavy machinery.

### M12 Connectors for Anti-Vibration, Shock

Commercial RJ45 connectors are not designed to withstand harsh environments and they usually experience link failures and data loss under constant vibrations and shocks. The JetNet 2006-M12 uses M12 connectors instead of commercial RJ45 connectors for greater protection. Therefore, it is robust, and it guarantees reliable connections even in harsh conditions.



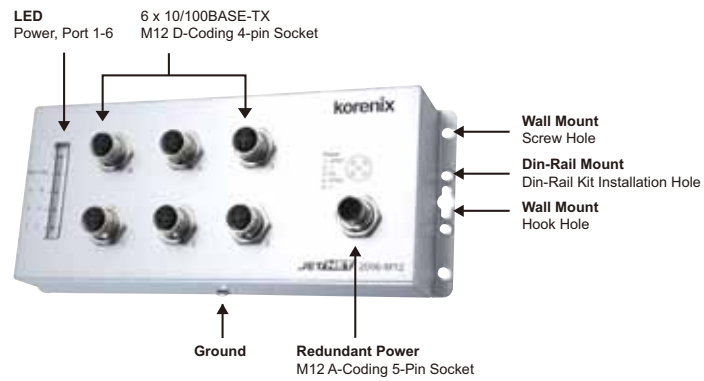
## IP67/IP68 Industrial Ethernet Switch

### Plug-and-Play & High Speed Transmission

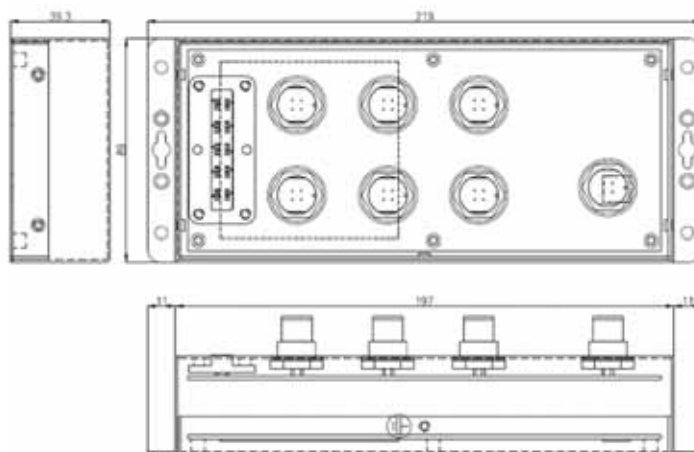
JetNet 2006-M12 requires no user configuration and immediately starts operating once it is powered on. The CoS, broadcast storm control, the 3.2Gbps

wire-speed, and non-blocking switching fabric provide excellent data transmission performance.

### JetNet 2006-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-T  
IEEE 802.3x Flow Control and Back-pressure  
IEEE 802.1p Class of Service  
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 1522Bytes

### 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 STP PVC cable

**Diagnostic LED:**

Power LED: Power 1/Power 2 (Green)

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

### Power Requirements

**System Power:** Support positive or negative power system**Power Consumption:**

Operating Voltage: 12 to 48V DC

Power consumption: max 6 Watts @ 48V

### Mechanical

**Protection class: IP31****Installation:** Din-Rail and Wall-mounting**Case:** Aluminum metal case**Dimension:** 89 mm (H) x 219 mm (W) x 39.3 mm (D)**Weight:** 625g without package

### Environmental

**Operating Temperature:** -25 ~ 70°C**Storage Temperature:** -40 ~ 80°C

### Regulatory Approvals

**Safety:** CE/EN60950**IEC 60945 DNV:** pending**EN 50155 Railway:** pending**UL1604 Hazardous Location:** pending**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

**Shock:** IEC60068-2-27, EN61373**Vibration:** IEC60068-2-6, EN61373**Free Fall:** IEC60068-2-32**Warranty:** 5 years

## Ordering Information

**JetNet 2006-M12 Industrial 6-port M12 Ethernet Switch**

Includes:

- JetNet 2006-M12
- 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
- Quick Installation Guide