

JetNet 3006-RJ

Industrial 6-Port Unmanaged RJ45/IP67 Ethernet Switch



CE FC RoHS

- Environmentally sealed by IP67 grade protection and ultra rugged enclosure for toughest industrial usages
- Six 10/100 TX auto-negotiation ports with IP67 grade robust RJ45 connectors
- Rugged power interface by M12 connector

Overview

The JetNet 3006-RJ 10/100 Base-TX Ethernet switch, is specifically designed for the toughest industrial environments. JetNet 3006-RJ is constructed of a rugged weather tight aluminum case and designed with six IP67 rated RJ45 Ethernet ports, which provide a waterproof, and dust-tight connection.

The JetNet 3006-RJ 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-RJ 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-RJ able to survive from constant shock and heavy impact. The aluminum case protects JetNet 3006-RJ against corrosion in environments such as,

offshore, coal mines, and petrochemical factories. The noncombustible property of the case also ensures that the JetNet 3006-RJ 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.

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

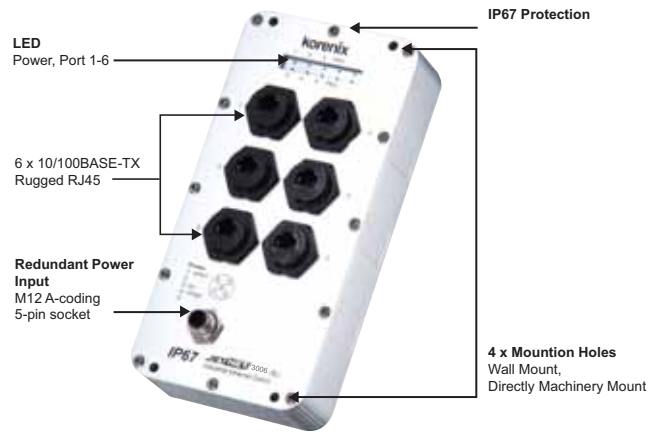
Din Rail
Power Supply

Rugged RJ45 Robust Connection with IP67 Protection

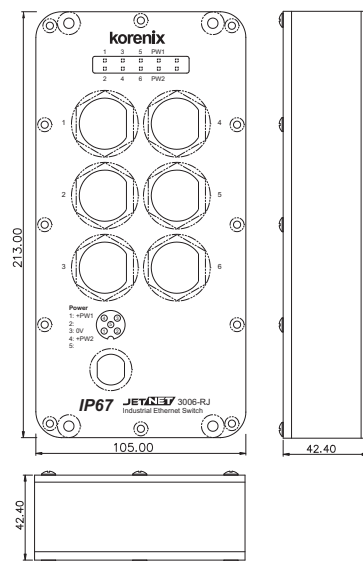
Commercial RJ45 connectors are not designed for harsh environment and usually experienced to link failure and data loss under heavy industrial usages. JetNet 3006-RJ replaces the commercial RJ45 connectors with rugged IP67 grade RJ45 connectors for greater protection against water and dust to eliminate 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-RJ guarantees a reliable connection and data integrity for harsh environment usages.

JetNet 3006-RJ Appearance



Dimensions (Unit –mm)



IP67/IP68 Industrial Ethernet Switch

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: Rugged RJ45

Power: M12 A-coding 5-pin connector

Cable:

10Base-T: 4-pair UTP/STP Cat. 4, 5 cable,
100Base-TX: 4-pair UTP/STP Cat.5, Cat.5E/Cat.6 cable,

Diagnostic LED:

Power: Power On (Green)

Fast Ethernet: Link (Green) / Activity (Green blinking),

Power Requirements

Power Consumption:

Operating Voltage: 12 to 48V DC

Power consumption: max 6 Watts @ 48V

Mechanical

Protection class: IP67

Installation: Wall mount

Case: Aluminum metal case

Dimension: 213.6 mm (H) x 106.0 mm (W) x 56.5 mm (D)

Weight:

1075 g with 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

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Ordering Information

JetNet 3006-RJ Industrial 6-port Unmanaged RJ45/IP67 Ethernet Switch

Includes:

- JetNet 3006-RJ
- Field assembleable Rugged RJ45 connector x 6
- Field assembleable M12 A-coding 5-pin connector x 1
- Cap of Rugged RJ45 x 6
- Cap of M12 A-coding 5-pin connector x 1
- Mounting Screws x 4
- Quick Installation Guide
- CD User Manual