JetNet 3006-RJ (Preliminary)
Industrial 6-Port Unmanaged RJ45/IP67 Ethernet Switch

- 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

CE FC RoHS

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.
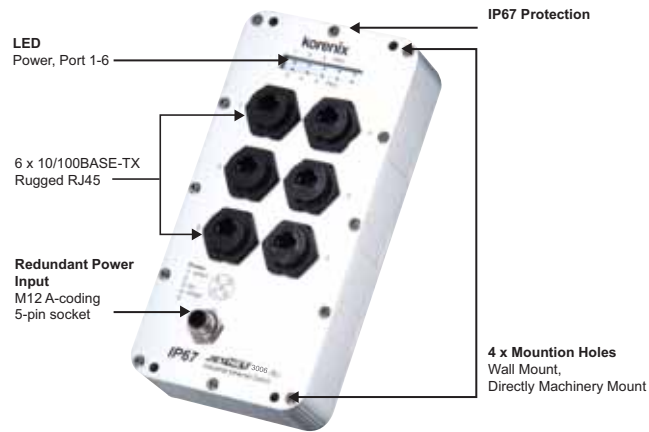
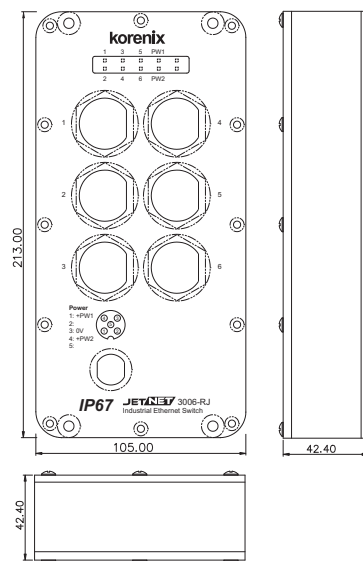## Rugged RJ45 Robust Connection with IP67 Protection

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

IP67 Protection

LED
Power, Port 1-6

6 x 10/100BASE-TX
Rugged RJ45

Redundant Power Input
M12 A-coding
5-pin socket

4 x Mountion Holes
Wall Mount,
Directly Machinery Mount

Dimensions (Unit –mm)

213.00

105.00

42.40

42.40

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-codeing 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

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

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