

## JetNet 3010G / 3010G-w Industrial 7+3G Gigabit Ethernet Switch



- 7 10/100 TX ports and 3 Gigabit RJ-45/SFP combo ports
- 32Gbps Switch Fabric with excellent data exchange performance
- Auto Gigabit RJ-45/SFP module detection
- IEEE 802.1p Quality of Service (QoS) for packet forwarding precedence
- IP31 rugged aluminum case
- Supports 1.2KV Hi-Pot isolation protection
- Dual 24V (12~48V) DC power inputs
- Operating temperature -20~70°C (-40~70°C wide temperature available by request)

### Overview

The Korenix JetNet 3010G is an Industrial Switch, which is equipped with 7 ports RJ-45 10/100Mbps and 3 ports Gigabit TX with SFP combo. The SFP ports are

compatible with of SFP types Gigabit SFP Transceivers, which could be Gigabit SX, LX, LHX, ZX and XD for several of connections and distances.

### Flexibility — 1000Mbps SFP / Combo Ports

The 3 combo ports lead to flexibility and convenience for additional fiber connections with just plugging-in different types of SFP modules, from 2KM multi-mode to 120KM single-mode. The combo ports also make the port-combination easier, such as 8 RJ ports and 2 fiber ports, or 9 RJ ports and 1 fiber port. The standard 10 port Fast Ethernet Switch greatly shortens normal long lead time by the special fiber switch model and reduces the total cost for fiber uplink network.



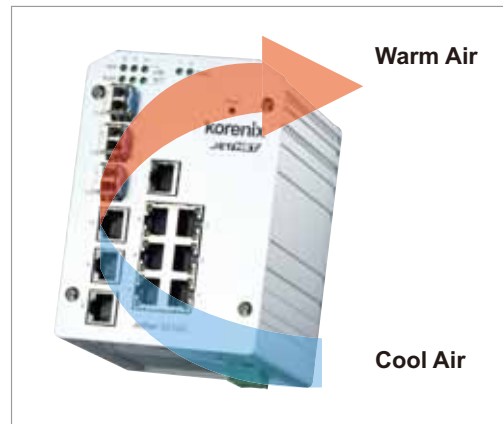
### Quality of Service (QoS)

JetNet 3010G focus on the cost effective application which allocates lot of Fast Ethernet devices and provides higher bandwidth to Gigabit Backbone Switch.

The 3.2Gbps Switch Fabric and IEEE802.1p Quality of Service (QoS) mechanism enlarge and extend filed site network transmission performance.

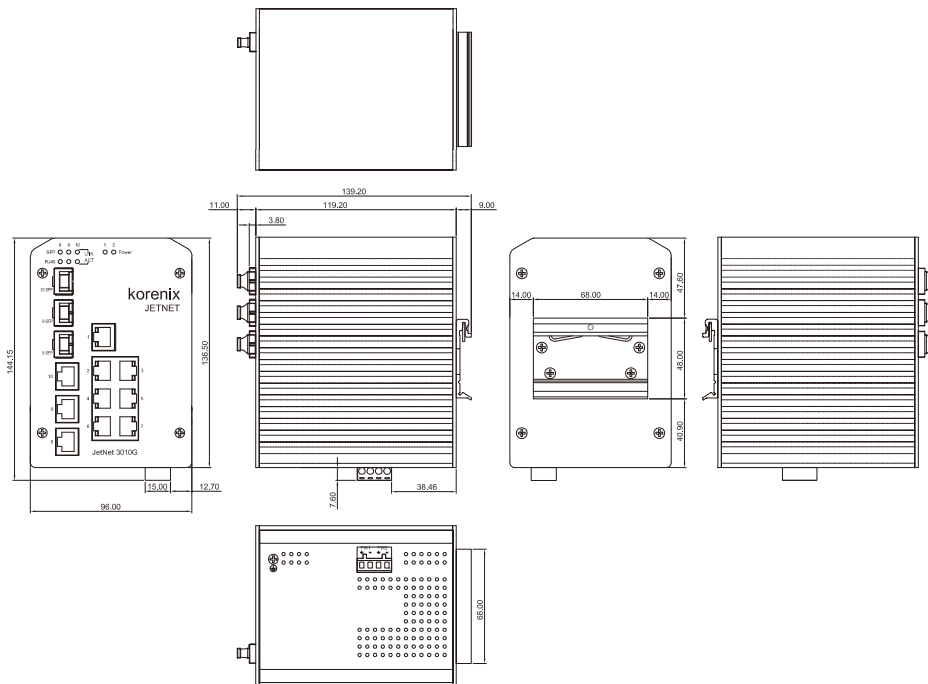
## Brilliant Idea for Hazardous Environment Application Robust Mechanism Design

Korenix JetNet 3010G's outstanding outlook is rock-solid with strong functionality. The special fan-less heating dispersing mechanical design adapts the thermodynamic technique to efficiently ventilate heat generated from Ethernet module. Using aluminum extrusion case with industrial quality, IP 31 class protection, light weight, rigid shell and excellent thermal conductivity units can operate reliably under harsh industrial environments.



- Industrial Intelligent NMS
- Rackmount PoE Plus Switch
- Industrial PoE Plus Switch
- Industrial 12-24V PoE Switch
- Industrial PoE Switch
- Rackmount L3/L2 Switch
- Gigabit Managed Switch
- Managed Ethernet Switch
- Entry-level Switch
- Wireless Outdoor AP
- Embedded PoE/Router Computer (LINUX)
- Industrial Communication Computer (WIN/LINUX)
- Ethernet/PoE/ Serial Board
- Ethernet I/O Server
- Media Converter
- Serial Device Server
- SFP Module
- Din Rail Power Supply

## Dimension (Unit = mm)



## Specification

### Technology

#### Standard:

IEEE802.3 10Base-T  
 IEEE802.3u 100Base-TX  
 IEEE802.3ab 1000Base-T  
 IEEE802.3z Gigabit Ethernet Fiber  
 IEEE802.3x flow control and back pressure  
 IEEE802.1p Class of Service

### Performance

#### Switch Technology:

Store and Forward Technology with 32Gbps Switch Fabric.

**System Throughput:** 14,880pps for 10M Ethernet, 148,800pps for 100M Fast Ethernet, 1,488,100 for Gigabit Ethernet

**Transfer packet size:** 64 bytes to 1522 bytes (with VLAN Tag)

**MAC Address:** 8K MAC address table

**System Packet Buffer:** 1Mbits shared packet buffer

#### Quality of Service:

Compliance with IEEE802.1p class of service with Tag Based Priority rule Per switch port provides 4 priority queues with 8 (Higher):4(High):2(Low):1(Lower) scheduling. The Tag Priority ID as following: Higher (6,7), High (4,5), Low (0,3), Lowest (1,2)

### Interface

#### Number of Ports:

7 x 10/100 Base-TX with Auto MDI/MDI-X function Auto-Negotiation  
 3 x 1000Base-T supports Auto MDI/MDI-X , Auto-Negotiation function and combo with Small Form Factor Package (SFP) socket

#### Connectors:

10/100 Base-TX: RJ-45  
 1000Base-T: RJ-45  
 Port # 8, 9 10/100/1000 TX  
 Port # 10 1000 TX  
 SFP: supports all 3.3v SFP type Gigabit fiber transceiver  
 Power: 4-Pin Removable Terminal Block connector

#### Cables:

RJ-45 connector: supports CAT-3, CAT-4, CAT-5 unshielded twisted pair or shielded twisted pair cable. The link distance is maximum 100 meters

### Diagnostic LED:

System Power: Power 1 (Green), Power 2 (Green)  
 10/100 Mbps RJ-45 port: Link/Activity (Green), Full Duplex/ Collision (Yellow)  
 port: Link/Activity(Green)  
 1000Base-T RJ-45 port: Link/Activity (Green)  
 SFP port: Link/Activity (Green)

### Power Requirements

#### System Power:

4 pins terminal block for power input.  
 DC 24V (12~48V) with polarity reverse protection and redundant function

#### Power Consumption:

11.5 Watts @ DC 24V(Maximum)

### Mechanical

**Installation:** DIN-Rail or Wall mount

#### Case:

Aluminum metal case with IP31 grade case protection for drop-waterproof and dustproof

**Dimension:** 137mm(H) x 96mm (W) x 119mm (D)

#### Weight:

0.875g without package

### Environmental

**Operating Temperature:** -20 ~70°C (JetNet 3010G)  
 -40~70°C (JetNet 3010G-w)

**Operating Humidity:** 0% ~ 90%, (non-condensing)

**Storage Temperature:** -40 ~ 85°C

**Storage Humidity:** 0%~ 95%, (non-condensing)

**Hi-Pot:** 1.2KV for port and power

### Regulatory Approvals

**EMI:** EN55022 CLASS A, EN61000-3-2, EN61000-3-3, EN61000-6-4

**EMS:** EN55024, EN61000-6-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-6-2

**Safety:** UL 508 UL 60950-1, CSA C22.2 No. 60950-1

**Shock:** IEC60068-2-27

**Vibration:** IEC60068-2-6

**Free Fall:** IEC60068-2-32

**MTBF:** 267380 hours @ 25°C

**Warranty:** 5 years

## Ordering Information

**JetNet 3010G Industrial 7+3G Gigabit Ethernet Switch,**  
 -20~70°C operating temperature

**JetNet 3010G-w Industrial 7+3G Gigabit Ethernet Switch,**  
 -40~70°C operating temperature

Includes:

- JetNet 3010G/3010G-w(without SFP transceiver)
- Quick Installation Guide
- CD User's manual

## Optional Accessories

Gigabit Multi-Mode SFP Transceiver

Gigabit Single-Mode SFP Transceiver

Gigabit BIDI/WDM Single-Mode SFP Transceiver