

## JetNet 5010G

### Industrial 10-port Gigabit Managed Ethernet Switch

- 7 10/100 Base TX and 3 Gigabit RJ-45/SFP combo, (10/100/1000 Base-TX, 100 FX, Gigabit SX/LX)
- Rapid Super Ring (recovery time <30ms)
- Supports Dual Homing II, Enable RSTP and Rapid Super Ring at the same device
- 7.4Gbps wire-speed forwarding
- 8K MAC address auto learning
- Up to 5 static trunk/802.3ad LACP
- Supports VLAN/GVRP/QoS/IGMP Snooping /Rate Control/ Online Multi-Port Mirroring
- Supports CISCO Like CLI , Web management
- Supports SNMP/RMON Network Management
- Secured management by HTTPs and SSH
- Port Security for MAC and port binding
- Event Notification by E-mail, SNMP trap, Syslog
- Digital Input and Relay Output
- Redundant DC Power Inputs
- Rigid Aluminum Case Complies with IP30
- 2KV Hi-Pot for all ports and power
- DIN-Rail/Wall-Mounting/Desktop Installation



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### Overview

Due to growing popularity and acceptance of industrial gigabit Ethernet technology, Korenix sees the needs for the gigabit Ethernet LAN switch, starting to deliver the gigabit LAN switch, JetNet 5010G. The JetNet 5010G is a Managed industrial Ethernet Switch, equipped with 7 ports 10/100TX and 3 ports 10/100/1000 RJ-45 / 100-FX / Gigabit SX/LX combo ports. The JetNet 5010G is designed as rugged

in aluminum material and with wide operating temperature. The software supports full L2 management features, ring redundancy, network control, security and alert features. The JetNet 5010G also supports RS-232 console for out of band management. The JetNet 5010G is Korenix strategic product and will be sold all over Korenix world wide distribution channel.

### Superb Management Features

It is critical for industrial applications that network remains non-stop. Korenix Rapid Super Ring technology provides network redundancy with can self-recover in less than 30ms at full load. Moreover, JetNet 5010G provides users with many advanced management features. It can be configured smartly by console CLI and web browser. Network administrators can define event notification to be sent via E-mail, SNMP trap, Syslog or relay output. Online status of each port is also shown on web page. To optimize network traffic, network

administrators can segment ports into different VLANs, or filter multicast traffic by IGMP Snooping. Bandwidth can be managed by port rate control to avoid abnormal broadcast storm. To enhance security, port access can be limited to pre-defined IP address table, binding MAC address to specific port or managed by HTTPS or SSH. Network determinism is answered by QoS, Quality of Service, for traffic prioritization. JetNet 5010G is the perfect combination of intelligent network management and robust network operation.

## Specifications

### Technology

#### Standard:

IEEE 802.3 10Base-T Ethernet  
 IEEE 802.3u 100Base-TX Fast Ethernet  
 IEEE 802.3ab 1000Base-TX  
 IEEE 802.3z Gigabit Ethernet Fiber  
 IEEE 802.3x Flow Control and Back-pressure  
 IEEE 802.1p class of service  
 IEEE 802.1Q VLAN  
 IEEE 802.1D Rapid Spanning Tree Protocol (RSTP)  
 IEEE802.3ad LACP

**Processing:** Store and Forward architecture

**Packet Filter:** Broadcast packet filtering

### Interface

#### Number of Ports:

10/100TX: 7 x RJ-45 , Auto MDI/MDI-X, Auto Negotiation  
 10/100/1000TX: 3 RJ-45, combo with SFP  
 Gigabit Fiber / 100Base-FX: 3 x SFP with Hot-Swapable function

#### Network Cable:

10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable, EIA/TIA-568 100-ohm (100m)  
 100 Base-TX: 2-pair UTP/STP Cat. 5 cable, EIA/TIA-568 100-ohm (100m)  
 1000 Base-TX: 4-pair UTP/STP Cat. 5 cable, EIA/TIA-568 100-ohm (100m)

#### LED Indicators:

10/100 RJ-45: Link/Activity (Green), Full Duplex/Collision (Yellow)  
 Gigabit Copper: Link/Activity (Green)  
 SFP: Link/Activity (Green)  
 Per Unit: Power (Green), Digital Output (Red),  
 Digital Input (Green), R.M. (Green)

**RS232 Console:** RJ-45 connector, Pin 3:TxD, Pin 6:RxD, Pin 5:GND

**Power:** 2 sets of power Input

**Digital Input:** 2 sets of Digital Input

**Alarm:** Digital Output: Relay Output and controlled by system configuration.

**Reset:** Reset button is provided to restore default settings.

### Redundancy

#### Network Redundancy:

R.S.R (Rapid Super Ring): Recovery time < 30ms  
 Dual Homing (R.S.R over RSTP):  
 Provides more flexible redundant ring algorithm with RSTP.

**Power Redundancy:** Dual power inputs

### Management

#### Configuration:

Cisco-Like CLI, Web, TFTP update, configuration backup and restore,  
 DHCP Client, warm reboot, reset to default, Admin password, Aging Time  
 Port Speed/Duplex Control, Status, Statistic, MAC table display  
 SNMP V1/V2c, Traps, RMON 1 (Statistics, History, Alarm, Events)

## Ordering Information

### JetNet 5010G Industrial 10-Port Managed Ethernet Rail Switch

- 7-ports 10/100Base-TX and 3 10/100/1000 RJ-45/SFP Combo ports Switch
- Quick Installation Guide
- Documentation CD-ROM
- Wall mounting plate and six screws

**MIB:** MIB-II, Bridge MIB, Ethernet-like MIB, VLAN MIB, Private MIB

**Port Trunk:** Up to 5 Static Trunk and 802.3ad LACP

**SNTP** for time management

**VLAN:** Supports IEEE802.1Q VLAN, GVRP, Management VLAN adjustment

**Quality of Service:** Four priority queues per port, 802.1p COS and Layer 3 TOS/DiffServ

**IGMP Snooping** for multicast filter and IGMP Query mode

**Rate Control:** Ingress/Egress Broadcast/Multicast/Unknown DA control

**Port Mirroring:** Online traffic monitoring on selected ports

**IP Security:** Supports IP address security to prevent unauthorized access

**Port Security:** Supports MAC address and Port binding

**E-mail warning, SMTP:** Automatic e-mail warning by pre-defined events

**System Event Log:** Supports both Local mode and Server mode

### Performance

#### Transfer Rate:

Wire Speed: 14,880 pps for 10M, 148,800 pps for 100M, 1488100 for Gigabit

**Transfer Packet Size:** 64 bytes to 1522 bytes (with VLAN tag)

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

**Memory Buffer:** 1Mbits

**Back-plane:** 7.4 Gbps

### Power Requirements

#### Power Supply:

Power System: Positive or Negative Power

Input Voltage: 24 VDC (12~ 48 VDC / -12~-48VDC), Dual Power Inputs

Reverse Polarity Protection: Present

**Power Consumption:** 15 Watts

### Mechanical

**Installation:** DIN-rail kit and wall-mounting ear

**Casing:** IP-30 protection, aluminum case

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

### Environmental

**Operating Temperature:** -10 to 70 °C (14 to 158 °F)

**Operating Humidity:** 5% to 95% (Non-condensing)

**Storage Temperature:** -40 to 85 °C (-40 to 185 °F)

**2KV Hi-Pot** for all ports and power

### Regulatory Approvals

**EMI:** FCC Class A, EN55022 Class A

#### EMC:

EN61000-4-2, EN61000-4-3, EN61000-4-4

EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

**Safety:** UL, cUL, EN60950

**Shock:** IEC 60068-2-27

**Free Fall:** IEC 60068-2-32

**Vibration:** IEC 60068-2-6

**MTBF:** at least 200000 hours \* MIL-HDBK-217F GB (MILITARY HANDBOOK) standard

**Warranty:** Global 5 years