

Korenix Sky

2007.03

[About Korenix](#)
[What's New](#)
[JetNet Series](#)
[High Tech Talk](#)
[Contact Us](#)

Ensures a High quality service of Gigabit packets transmission

Korenix delivers a new generation Industrial Unmanaged Gigabit Switch – [JetNet 3010G](#). It equipped 7-port 10/100 Fast Ethernet, and 3-port Gigabit RJ-45 /SFP combo for file server sites with copper-wired Fast Ethernet networking required Gigabit uplink to fulfill high network throughput demand. This solution suits the best for high bandwidth media networking environment, and a gradual migration to Gigabit speed for industrial automation.

High System Performance

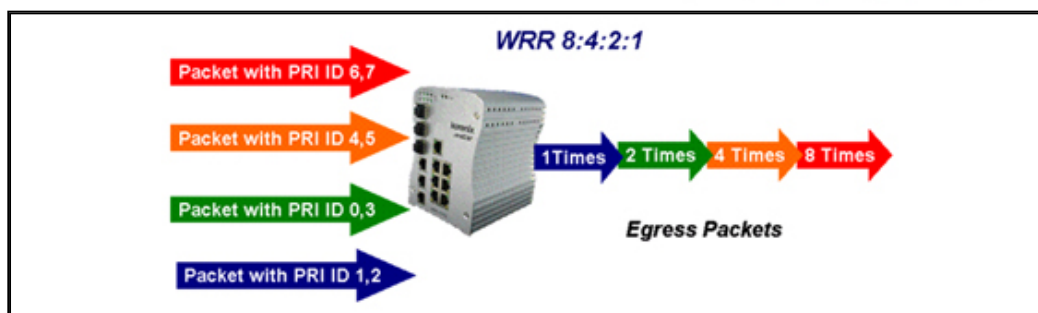
The [JetNet 3010G](#) equipped 1Mbps SSRAM and is running at 125Mhz clock with 256bits data width to perform 32Gbps High Data Exchange Switch Fabric. The Switch Fabric provides a large of bandwidth for all ports requirements including Gigabit Copper/SFP and Fast Ethernet running at full wired speed in full duplex or half duplex mode in minimum packet size.

Each Gigabit port combines a small form factor pluggable socket (SFP) for Gigabit SFP fiber transceiver (Gigabit SX/550m, Gigabit SX Plus/2km, Gigabit LX/10km, Gigabit LHX/30km and Gigabit XD/50km) and Gigabit RJ-45 with Auto MDI/MDI-X, Auto negotiation functions for various link speed connections and distances. The Switch will automatically detect the link media and will build connection with SFP-link high priority.

Ensure the Service of Packets Transmission

In networking environments, information with high precedence is required to be forwarded out first, such as voice over IP or network control frames. To analyze and forward those packets with various priority, [JetNet 3010G](#) has implemented the Quality of Service for scheduling packet forwarding. It complies with IEEE802.1p QoS standard with tag based classification mechanism and weight round robin (WRR) scheduling. Each port includes 4 priority queues for different packet service priority with 8:4:2:1 (High Queue, Middle Queue, Low Queue, and Lowest Queue) forwarding scheduling.

JetNet3010G IEEE802.1p Rule	
Queue	Priority ID
Higher Queue	6,7
High Queue	4,5
Low Queue	0,3
Lower Queue	1,2



Rigid Mechanical Design

To sustain the networking device under harsh environment, [JetNet 3010G](#) is designed with IP31 grade aluminum case protection with wide operating temperature (-10~70°C) support. The redundant power inputs also support excellent power range from DC12V to 48V with polarity reverse protection for positive or negative electrical power system.

Major features of Industrial Gigabit Unmanaged Switch [JetNet 3010G](#)

- 7 10/100TX and 3 Gigabit copper/SFP combo-port
- IEEE802.3, 802.3u, 802.3z and 802.3ab Compliance
- Auto detection Gigabit Transmission Media
- Flexible Gigabit Fiber Link Distance

- High performance 32Gbps Switch fabric
- Supports Auto MID/MDI-X with Flow control
- IEEE802.1p for Quality of Service (QoS)
- Power inputs redundancy with wide DC voltage range
- 1.5KV Hi-POT isolation protection
- Rigid IP31 grade Aluminum Case
- Supports -10~70°C wide range Operating Temperature

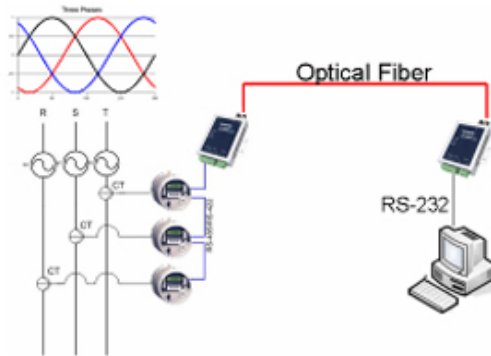
Product Availability: [JetNet 3010G](#) series is the first 7+3G industrial Gigabit switch in the world and is available by March 2007.

■ ■ **What's New**

Case Study of [JetCon 2401](#): Monitoring CT reading of three-phase-four-wire power line of power plant from remote site

Build a reliable fiber connection with enhanced safety protections

The [JetCon 2401](#) industrial serial to fiber media converter is designed to work in industrial operating temperature ranges from -20° to +70°C. This makes converter suitable for extreme applications such as traffic controls, outdoor SCADA installations, water treatment plants and monitoring CT reading of three-phase-four-wire power line of power plant in remote site. To meet industrial installation requirements, the [JetCon 2401](#) has terminal block connections for the serial signals, power input, and two ST connectors for the fiber side, DIN Rail mount kit for installation. The JetCon 2401 series also provides stronger immunity standard approval for **EMS EN61000-4 EFT, RS, CS, ESD, and Surge with Level 3, criterion performance A** ability.



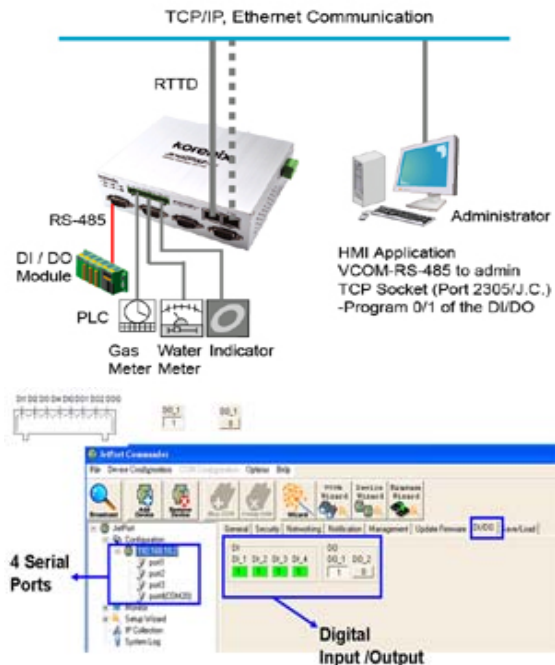
JetCon 2401: Extend serial device connection to Fiber optics



The JetCon 2401 is a high performance serial to fiber media converter. The [JetCon 2401](#) also supports various RS-232/RS-422/RS-485 serial interfaces. With auto baud rate detection and direction control, JetCon 2401 converts the serial signal into fiber optics transmission. It widely extends the serial signal link distance up to 5KM (JetCon 2401-m Multi-mode Optical Fiber) or 40KM (JetCon2401-s Single-mode Optical Fiber) with high EMI/EMS noise immunity.

Case Study of JetPort 5604/5604i: Remotely Monitoring/ Configure the Digital I/O sensors on-site via Ethernet networking

[JetPort 5604/ 5604i](#) serial device server series provides an easy to use yet high security Ethernet Digital I/O feature. Equipped with four digital inputs, two digital outputs (5V, TTL), JetPort 5604 series supports remotely configure/ monitor the digital I/O devices on site with high security SSH or SSL access via Ethernet networking. The following HMI application is using the virtual COM protocol or Linux administrative program using the TCP socket mode to program DI/DO access from JetPort 5604 interfaces to connect the local data acquisition module (e.g. smoke detectors, alarm, light control, digital sensors) and PLC digital I/O modules



JetPort Commander v1.8 also provides an user friendly interface to access Digital I/Os

JetPort 5604/5604i: A High performance 4-port RS 232/422/485 Redundant serial device server with Digital I/O controls

[JetPort 5604](#) series is a 4-port Serial to Redundant Ethernet Device Server, each serial port supporting 3-in-1 RS232/422/485 serial interfaces. JetPort 5604i provides 4 RS422/485 serial interfaces with 2KV optical isolation protection. You can use one IP address, dual redundant paths to control maximum 4 serial devices over the Ethernet. The data throughput can be



also reached to high performance 460.8 Kbps for each serial port. You can configure the devices as Virtual COM, TCP Server, TCP Client, or UDP modes. The [JetPort 5604](#) series also equipped with 2 types of redundant power inputs, 4 Digital Inputs and 2 Digital Outputs.

www.korenix.com