Industrial 5-port Full Gigabit Ethernet Switch

JetNet 3005G

JetNet 3005G is a compact size 5-port full Gigabit Industrial Ethernet Switch, which ensures high switching performance and easy installation. It also supports QoS, broadcast storm filtering to ensure quality traffic transmission, and further supports up to 9K bytes Jumbo frame for efficient data transmission. It is an ideal solution for high bandwidth demanding applications such as IP surveillance.

JetNet 3005G supports dual power inputs and one alarm relay to indicate fault conditions when any link or power failure happens. Its IP30 rugged sheet metal housing provides great injection protection and heat dispersion capability for the need of -40~75°C wide operating temperature for operating reliably under harsh environments.
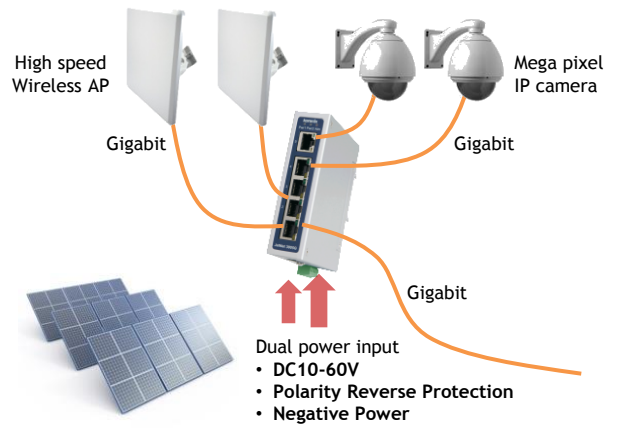
G		Jumbo		+75 −40	
Gigabit	**Alarm Relay**	**Jumbo Frame**	**10~60VDC**	**-40~75°C**	**Heavy Industrial**

Features

▸ 5-port full Gigabit RJ-45 switch

▸ Slim, pocket sized enclosure for saving install space

▸ Auto MDI/MDI-X, Auto-Negotiation, half / Full Duplex mode

▸ Wire Speed / Non-Blocking

▸ 9KB Jumbo frame support for handling large packet size data

▸ Dual DC10~60V Power Input with Redundancy

▸ Multiple-Event Alarm Relay Output

▸ IP30 Rugged Steel Metal Housing design

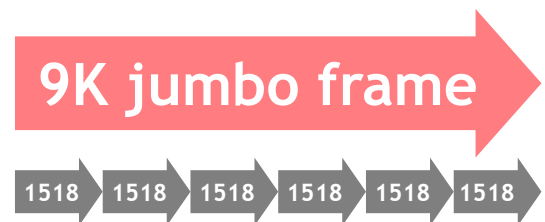▸ Harsh Environment Temperature -40~75°C

Plug-&-Play
High Resolution IP Surveillance

JetNet 3005G requires no user setup and starts operating as soon as it is turned on and its 5 Full Gigabit ports ensure high-speed, large packet size data transmission for IP surveillance application. Therefore, users can benefit from its easy and high switch performance.
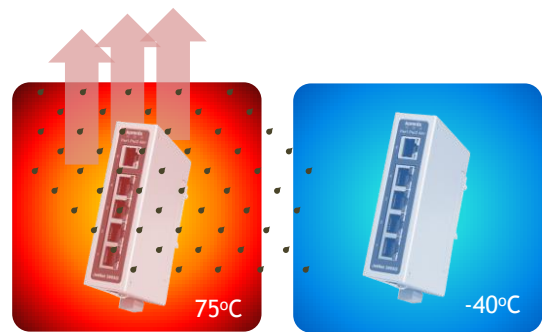
High speed Wireless AP

Mega pixel IP camera

Gigabit

Gigabit

Gigabit

Dual power input
• **DC10-60V**
• **Polarity Reverse Protection**
• **Negative Power**

9k Jumbo Frame
Maximum Switching Performance

Standard Ethernet frame is from 64-1518 bytes and it's sufficient for general use. However, the files might be divided into many small packets when transmitting large files, so that jumbo frame is needed in this kind of application. JetNet 3005G supports 9K jumbo frame to provide better data transmission efficiency.

9K jumbo frame

1518 1518 1518 1518 1518 1518

Rugged Design for
Harsh Industrial Environment

JetNet 3005G can provide all critical requirements for harsh industrial environment. It conforms to IEC61000-6-2/-6-4 heavy industrial level EMC and is anti-shock, bump and vibration. It operates in -40~75°C wide operating temperature for hazardous front-end applications.

75°C

-40°C

Slim Fit
Space Saving

As slim as a business card, JetNet 3005G fits into field site boxes and saves the space. Besides, it integrates many useful features into this compact housing to provide a more efficient solution.
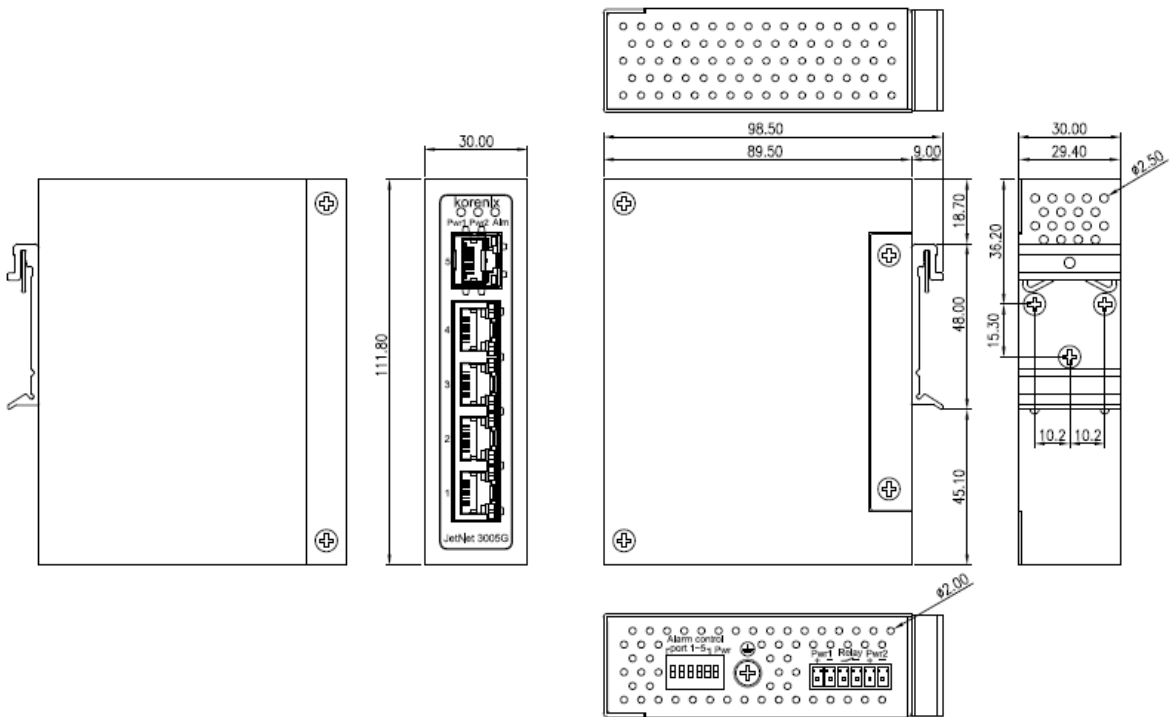
Specification

Technology	
Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3x flow control and back-pressure

Performance	
Switch Technology	Store and Forward Technology
System Throughput	14.9M packet per second, 64 bytes packet size 14,880pps for Ethernet 10Base-T 148,800pps for Fast Ethernet 100Base-TX 1488,100pps for Gigabit Ethernet (PPS: Packet Per Second)
MAC Address	2K MAC address table
Packet Buffer	1Mbits embedded
Transfer Performance	14,880pps for Ethernet 148,800pps for Fast Ethernet 1488,100pps for Gigabit Ethernet
Jumbo Frame	64bytes ~ 9Kbytes
Broadcast Storm Control	Default enabled
Class of Service	Default Enabled. Compliance with IEEE802.1p class of service with Tag Based Priority. Each port support 4 priority queues, each queue with 64(Higher) : 48(High) : 32(Low) : 16(Lowest) buffer depth. The scheduling type is strict priority (SP). The CoS tag to queue mapping as following: Higher (CoS 7, 6), High (Cos 5,4), Low (CoS 3,2), Lowest (CoS 0,1)
Relay Alarm	Dry relay output with DC 24V/ 1A current forwarding ability for port and power event alarm. Enabled by 6-pin Dipswitch. Normal state (Alarm off): output form an open circuit Abnormal state (Alarm occurred): output form a close circuit

Interface	
Ethernet Ports	5 x 10/100/1000 Base-T(X) RJ-45 with Auto MDI/MDI-X, Auto-Negotiation, half/Full Duplex
Power Port	6-pin removable terminal block
Relay Alarm	included in 6-pin removable terminal block
Cables	100Base-TX: 2-pairs EIA/TIA 568B UTP/STP Cat.5e cable 1000Base-T: 4-pairs EIA/TIA 568B UTP/STP Cat.5e cable
Diagnostic LEDs	Power Status (Green) x2: On (power is applying) Relay Alarm (Red): On (Output conductor is formed as a close circuit) Ethernet Port: Link (Green on) / Activity (Green blinking) Ethernet Port: 1000Mbps (Amber on) / 100 or 10Mbps (Amber off)

Power Requirement	
System Power	redundant power inputs with polarity reverse protection, support negative power
Voltage	DC 24V (10~60V)
Power Consumption	10 Watts @ 24VDC

Mechanical	
Installation	EN50022 DIN-Rail mount
Case	IP30 grade sheet metal case
Dimension (H x W x D)	111.8 x 30 x 89.5 mm (without DIN-rail clip)
Net Weight	0.35kg

Environmental	
Operating Temperature	-40 ~ 75°C
Operating Humidity	0% ~ 95%, (non-condensing)
Storage Temperature	-40 ~ 85°C
Storage Humidity	0% ~ 95%, (non-condensing)

Approvals	
EMI	CISPR 16-1-2/ 16-2-1/ 16-2-3 / 22、FCC Part 15 Subpart B Class A, ANSI C63.4 Heavy Industrial IEC/EN61000-6-4
EMS	Heavy Industrial IEC/EN 61000-6-2、IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8
Shock	IEC60068-2-27
Bump	IEC60068-2-29
Vibration	IEC60068-2-64
Free Fall	IEC60068-2-32
Warranty	5 years

Dimension (Unit = mm)

Ordering Information

JeNet 3005G Industrial 5-port Full Gigabit Ethernet Switch

Includes:

- ▸ JetNet 3005G
- ▸ Quick Installation Guide