

JetNet 3010G/3010GT

Industrial 10-port Gigabit Unmanaged Ethernet Switch

- 7 10/100 Base TX and 3 Gigabit RJ-45/SFP combo, (10/100/1000 Base-TX, Gigabit SX/LX)(3010G)
- 7 10/100 Base TX and 3 10/100/1000 TX (3010GT)
- Supports Full/Half-Duplex, auto MDI/MDI-X on 10/100TX port, Full-Duplex on Gigabit port
- 7.4Gbps non-blocking switching performance
- 8K MAC address auto learning
- 12-48V, -48V Redundant DC Power Inputs
- Rigid Aluminum Case Complies with IP31
- 2KV Hi-Pot for all ports and power
- -10~70°C operating temperature
- DIN-Rail/Wall-Mounting/Desktop Installation



JetNet 3010G

Overview

The JetNet 3010G series is an Unmanaged industrial Ethernet Switch. It is equipped 7 ports 10/100TX and 3 ports 10/100/1000 RJ-45 / Gigabit SX/LX SFP combo ports. Or 7 ports 10/100TX and 3 ports 10/100/1000 RJ-45 ports (JetNet 3010GT). To meet industrial environment requirements, features a terminal block to provide wide range power inputs

12-48V and -48V with reverse polarity protection, and the rigid aluminum case design with IP31 standard. Adopting high performance switching architecture to support 7.4G non-blocking switching performance and up to 8K MAC address auto learning. JetNet 3010G is the best solution to fulfill the increasing demand on industrial Gigabit Ethernet.

Flexible, hot-swappable SFP Transceiver

Gigabit Uplink for high performance requirement

SFP is the abbreviation of the Small Form-factor Pluggable. It is a compact optical transceiver used in optical communications for data communications applications. JetNet 3010G offers 3 10/100/100 RJ-45 or 3 Gigabit SX/LX SFP combo ports. Korenix also recommend many SFP transceivers for your selection. You can connect the 3 ports to the gigabit backbone network or other applications which

need wider bandwidth. The JetNet 3010G with SFP module provides better flexibility to connect with various Gigabit interfaces without stocking different types of the fiber switches. For compatible with your existing fiber construction, you can also find the LC to SC or LC to ST fiber cable in the list of accessory order information.

Korenix SFP Family

Korenix provides 1000Base-SX/LX SFP which meets SFP GBIC standard. The SFP transceivers can be used with any SFP GBIC compliant slot. With 850nm 1000Base-SX Multi-mode SFP, the distance can support up to 550m. With 1310nm 1000Base-LX Single-mode SFP(SFPGLX10), the distance can support up to 10KM. You can also select LHX mode for

longer distance. The available SFP transceivers are listed in the accessory order information.



Specifications

Technology

Standard:

IEEE 802.3 10Base-T Ethernet
 IEEE 802.3u 100Base-TX Fast Ethernet
 IEEE 802.3z Gigabit Ethernet
 IEEE 802.3x Flow Control and Back-pressure

Processing: Store and Forward architecture

Interface

Number of Ports:

10/100TX: 7 x RJ-45, Auto MDI/MDI-X, Auto Negotiation
 10/100/1000TX: 3 RJ-45 or Combo with SFP
 Gigabit Fiber: 3 x Gigabit 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)

Optical Fiber:

SFP : Hot-Swapable 1000 Base SX/LX, Single/Multi-mode
 1000Base-SX Multi-mode(850nm) transceiver 550m(SFPGSX)
 Wave-length: 850nm
 Tx Power: -9.5dBm(Min)~-4dBm(Max)
 Rx Sensitivity: -18dBm(Max)
 Linkbudget: 8.5dBm
 1000Base-LX Single-mode(1310nm) transceiver 10KM(SFPGXL10)
 Wave-length: 1310nm
 Tx Power: -9.5dBm(Min)~-3dBm(Max)
 Rx Sensitivity: -20dBm(Max)
 Linkbudget: 10.5dBm

LED Indicators:

RJ-45 ports: Link/Activity (Green), Full duplex/Collision (Yellow)
 Gigabit Ports: Link/Activity (Green)
 Power: Power 1 On(Green) / Power 2 On(Green)
Power: 2 set of power Input

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:

Input Voltage: 24 VDC (12 to 48 VDC), dual inputs

Reverse Polarity Protection: Present

Power Consumption: 15 Watts

Mechanical

Installation: DIN-rail kit and wall-mounting ear

Casing: IP-31 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



Ordering Information

JetNet 3010G Industrial 10-Port Unmanaged Ethernet Rail Switch with 3 Gigabit RJ45/SFP Combo Ports

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

JetNet 3010GT Industrial 10-Port Unmanaged Ethernet Rail Switch

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