

Specification

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 and GVRP
 IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP)
 IEEE802.3ad LACP
 IEEE802.1X Port_based Network Access Control

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

Packet Buffer: 1Mbits

Relay Alarm: Dry Relay output with 1A@24V ability

Management

Configuration: Cisco-Like CLI, JetView, Web, HTTPS, SSH; TFTP/Web Update for firmware and configuration backup/restore, DHCP Client, Warm reboot, Reset to default, Admin password, Port Speed/Duplex control, status, statistic, MAC address table display, Static MAC, Aging time, **SNMP v1, v2c, v3**, Traps and RMON1.

SNMP MIB: MIB-II, Bridge MIB, VLAN MIB, SNMP MIB, RMON and Private MIB

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

VLAN: IEEE802.1Q VLAN, GVRP. Up to 64 VLAN groups

Quality of Service: Four priority queues per port, IEEE802.1p COS and Layer 3 TOS/DiffServ

IGMP Snooping: IGMP Snooping V1/V2/V3 for multicast filtering and IGMP Query V1/V2

Rate Control: Ingress filtering for Broadcast, Multicast, Unknown DA or All packets, and Egress filtering for All packets

NTP: Network Time Protocol to synchronize time from Internet

Embedded Watchdog: Embedded hardware watchdog timer to auto reset system when switch system failure

Port Mirroring: Online traffic monitoring on multiple selected ports

Port Security: Assign authorized MAC to specific port

IP Security: IP security to prevent unauthorized access

802.1x: Port_based Network Access Control

DHCP Server: Can assign 255 IP address, support IP and MAC binding

E-mail Warning: Automatic warning by pre-defined events

System Log: Supports both Local mode and Server mode

Network Redundancy

Rapid Spanning Tree Protocol: IEEE802.1D-2004 Rapid Spanning Tree Protocol. Compatible with Legacy STP and IEEE802.1w.

Rapid Super Ring(RSR): 2nd generation Korenix Ring Redundancy Technology. Failure recovery within 5ms.

Dual Homing II: Multiple uplink paths to upper switches

Multiple Ring: Couple or multiple Rapid Super Rings

Legacy Super Ring: Backward compatible in client mode

Any Ring: Inter-operate with other vendors' ring

Interface

Number of Ports: 10/100TX: 7 x RJ-45, Auto MDI/MDI-X, Auto Negotiation

10/100/1000TX: 3 x RJ-45, combo with SFP

Gigabit Fiber/100Base-FX: 3 x SFP with Hot Swappable

Cables:

10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable (100m)

100 Base-TX: 2/4-pair UTP/STP Cat. 5 cable (100m)

1000 Base-T: 4-pair UTP/STP Cat. 5 cable (100m)

Diagnostic LED:

10/100 RJ-45: Link/Activity(Green), Full duplex/Collision (Yellow)

Gigabit Copper/SFP: Link/Activity(Green)

Unit: Power(Green), Digital Out(Red), Digital Input(Green), R.M.(Green)

RS232 Console: RJ-45 Connector, Pin3: TxD, Pin6: RxD, Pin5: GND

Power: 2 sets of power Inputs

Digital Input: 2 sets of Digital Input

Logic Low (0): 0-10VDC/Logic High(1): 11-30VDC

Alarm: 2 sets of Relay outputs for pre-defined events

Reset: Reset button is provided to restore default settings

Power Requirements

System Power: 12~48V/-12~-48VDC with Reverse Polarity Protection

Power Consumption: 11.5 Watts @ DC 48V

Mechanical

Installation: DIN-Rail mount or Wall Mount

Case: IP-31 protection, aluminum metal case

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

Weight: 0.915kg with package

Environmental

Operating Temperature: -20 ~70°C

Operating Humidity: 5% ~ 95% (non-condensing)

Storage Temperature: -40 ~ 85°C

Hi-Pot: 1.2KV for ports and power

Regulatory Approvals

EMI: FCC Class A, CE/EN55022. Class A

EMS: 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: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

MTBF: 249,683 Hours, MIL-HDBK-217F GB standard

Warranty: 5 years



Ordering Information

JetNet 5010G Industrial 10-Port Managed Ethernet Switch

Includes:

- JetNet 5010G(without SFP transceiver)
- Wall mounting plate
- Quick Installation Guide
- Documentation CD-ROM

Optional Accessories

SFPGSX:1000Base-SX multi-mode SFP transceiver,550m, -10~70°C

SFPGSX-w:1000Base-SX multi-mode SFP transceiver,550m, wide operating temperature, -40~85°C

SFPGSX2:1000Base-SX plus multi-mode SFP transceiver,2Km, -10~70°C

SFPGSX2-w:1000Base-SX plus multi-mode SFP transceiver, 2Km,wide operating temperature, -40~85°C

SFPGXLX10:1000Base-LX single-mode SFP transceiver 10Km, -10~70°C

SFPGXLX10-w:1000Base-LX single-mode SFP transceiver, 10Km, wide operating temperature, -40~85°C

SFPGLHX30:1000Base-LHX single-mode SFP transceiver,30Km, -10~70°C

SFPGLHX30-w:1000Base-LHX single-mode SFP transceiver, 30Km, wide operating temperature, -40~85°C

SFPGXD50:1000Base-XD single-mode SFP transceiver, 50Km, -10~70°C

SFPGXD50-w:1000Base-XD single-mode SFP transceiver, 50Km, wide operating temperature, -40~85°C

SFPGZX70:1000Base-ZX single-mode SFP transceiver, 70Km, -10~70°C

SFPGZX70-w:1000Base-ZX single-mode SFP transceiver, 70Km, wide operating temperature, -40~85°C