

Specification

Technology

Standard:

IEEE 802.3 10Base-T
 IEEE 802.3u 100Base-T
 IEEE 802.1p Class of Service
 IEEE 802.3af Power Over Ethernet(PoE)
 IEEE 802.3at High Power PoE
 IEEE 802.3 Flow Control and Back-pressure
 IEEE 802.1D Spanning Tree
 IEEE 802.1w Rapid Spanning Tree

Performance

Switch Technology:

Store and Forward Technology with 3.2Gbps wire-speed non-blocking Switch Fabric

System Throughput: 1.785Mpps

MAC Address: 2000

Packet Buffer: Embedded 1Mbits shared buffer

Transfer performance: 14,880pps for Ethernet and 148,800 for Fast Ethernet and transfer packet size from 64 to 1522Bytes

PoE Technology: End-Span wiring architecture
 PD classification detection, class ID 0~3 follow IEEE802.3af standard, and 30W High power deliver procedures for class ID 4.

Pin assignment: V+ (RJ-45 Pin 4,5), V- (RJ-45 Pin 7,8), TX (RJ-45 Pin 1,2), RX (RJ-45 Pin 3,6)

Protection: Provides over-current protection by PD class ID

Management

Management interface: SNMP v1, v2c and v3, Web browser, JetView and CLI Management

Management Security: 4 entries for web, telnet, SNMP management security

SNMP Trap: Provides Cold start, Warm start, Port event, Power event, Authentication failure, PoE trap and Korenix private trap for proprietary functions

SNMP MIB: RFC 1213 MIBII, RFC 1493 Bridge MIB, RFC 1757 RMON MIB, RFC 2674 VLAN MIB, RFC 1643 Ethernet like MIB, RFC1215 Trap MIB, RFC 3621 Power Ethernet MIB, Korenix Private MIB

Firmware upgrade: TFTP, Local file and JetView

System Log: 1000 system entries for system or remote log server

Event Alarm Relay: 1 1A @24V Dry Relay Contact output for port link down, PoE and System power events.

Quality of Service: Quality of Service determined by port, Tag and IPv4 Type of Service

Class of Service: IEEE802.1p class of service, with 4 priority queues

DHCP: Supports DHCP Client and DHCP Server function with specified IP exclusion and MAC binding function

Timer: Supports Network Time Protocol (NTP) to synchronize time from NTP Server

VLAN: Port based VLAN

IGMP Snooping: Supports IGMP Snooping v1/v2/v3 and IGMP Query v1/v2

Network Redundancy: Supports Rapid Super Ring function for network redundancy with 5ms network recovery time; To inter-operate with other higher level switches, JetNet 4706 provides Dual Homing II technology to conform with RSTP protocol.

JetNet 4706 also conforms with IEEE802.1D 2004 edition for RSTP and STP standard protocols

PoE Control: Supports user configuration for PoE enable, disable, or based on schedule

Power Limit Control: The control mode supports IEEE802.3af Standard, Manual and Ultra mode for 30W Hi-power. The maximum DC power delivery on each PoE port is 12.9W@DC 24V input or 30W @ DC55V input

PoE Schedule Control: Each PoE port can be activated and powered scheduling with different rule. It supports weekly schedule on hourly basis

IP Security: IP security to prevent unauthorized access

Port Security: Port security to assign authorized MAC to specific port

Interface

Number of Ports:

4 x 10/100Base-TX with PoE Injector

2 x 10/100Base-TX ports

1 x RS-232 Console

Connectors:

10/100TX: RJ-45

Console: RJ-45

Power & Relay Alarm: 6-pin Terminal Block

Cable:

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

100Base-TX: 4-pair UTP/STP Cat.5, Cat.5E/Cat.6 cable, EIA/TIA-568 100-ohm(100m)

Reset Button: For system reboot and factory default setting

Diagnostic LED:

Power LED: Power 1/Power 2 (Green)

Fast Ethernet Port 1~4: Link(Green)/

Activity (Green blinking),

PoE Powering (Yellow on), PoE Detect (Yellow blinking),

PoE Disable (Yellow off), PoE Powering failure (Yellow fast blinking)

Fast Ethernet Port 5,6: Link(Green) /Activity (Green blinking)

Alarm (Red): Port link down or power failure occurred

Power Requirements

System Power: Support positive or negative power system with DC 24~55V power input range and polarity reverse protection

Power Consumption:

8 Watts @ 50V (Maximum) without PD loading



Mechanical

Installation: DIN-Rail mount or desktop or wall mount

Case: IP-31 grade aluminum metal case

Dimension:

46.5 mm (H) x 147.8 mm (W) x 136 mm (D) without DIN-rail clip

Weight:

0.72 kg with package

0.65 kg without package

Environmental

Operating Temperature: -20 ~ 60°C

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

Storage Temperature: -40 ~ 80°C

Storage Humidity: 5%~ 95%, (non-condensing)

Regulatory Approvals

Safety: CE/EN60950

EMI:FCC Class A; CE/EN55022:2003 Class A;

CE/EN61000-3-2:2001 Harmonic Test;

CE/EN61000-3-3:1995 Flicker test

EMS:

EN61000-4-2:1998,ESD

EN61000-4-3:1998, RS

EN61000-4-4:1995, EFT

EN61000-4-5:1995, Surge

EN61000-4-6:1996, CS

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

MTBF: 324,345 Hours, MIL-HDBK-217F GB standard

Warranty: 5 years

Ordering Information

JetNet 4706 Industrial 6-port Managed PoE Ethernet Switch

Includes:

- JetNet 4706, 4 PoE Injectors plus 2 10/100TX ports
- Quick Installation Guide
- RS-232 Serial Cable
- CD User Manual
- DIN Rail Mount Kit

Optional Accessories

- 48VDC Din-Rail Power: DR-75-48
- 48VDC PoE Splitter: PD1205