

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

Performance

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

System Throughput: 1.78Mpps

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

Quality of Service: Meets IEEE802.1p, per port provides 4 priority queues with WRR packet forwarding mechanism

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

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: Over-current protection by PD class

Power Budget Control: Supports IEEE802.3af PD classification mechanism for 15.4W and class ID number 4 for IEEE802.3at High-power pre-standard 30W
The maximum DC power delivery on each PoE port is 12.9W@DC 24V input or 30W @ DC 55V input with maximum 0.615A current output.

Management

Management interface: Web browser, JetView

Firmware upgrade: TFTP, Local file and JetView

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

Network Redundancy: Supports Rapid Super Ring function for network redundancy with 5ms network recovery time. JetNet 3706 also conforms with IEEE802.1D 2004 edition for RSTP and STP standard protocols

PoE Port 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 Scheduling Control: Each PoE port can be activated and powered scheduling with different rule. It supports weekly scheduling by hourly basis

Interface

Number of Ports: Four 10/100Base-TX with PoE injector

Two 10/100Base-TX Uplink Ports

Connectors: 10/100TX: RJ-45

Power: 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 cable, EIA/TIA-568 100-ohm(100m)

Power Requirements

System Power: Supports positive or negative power system

DC 24~55V with reverse polarity protection

Power Consumption: 8Watts @ 48V (Maximum) without PD loading

Mechanical

Installation: DIN-rail mount or Wall mount or Desktop

Case: IP-31 grade aluminum metal case

Dimension: 46.5 mm (H) x 174.8 mm (W) x 136 mm (D) without DIN-rail clip

Weight:

0.70kg with package

0.65kg 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

EMS: EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6

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 3706 Industrial 6-port Web-Managed PoE Ethernet Switch

Includes:

- JetNet 3706, 4 PoE Injectors plus 2 10/100TX ports
- Quick Installation Guide
- CD-User Manual
- DIN Rail Mount kit

Optional Accessories

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