

## Specification

### Technology

#### Standard:

IEEE 802.3 10Base-T  
IEEE 802.3u 100Base-T/100 Base FX  
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:** 1.785Mpps

**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

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

**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: Over-current protection by PD class.

### 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 3706f 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

100Base-FX: SC Connector

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)

100Base-FX: Multi-mode fiber: 50~62.5/125um; Single-mode fiber: 8~10/12um

#### Fiber Transceiver:

JetNet 3706f-m, Multi-mode: 2KM max. distance

Wave-length: 1310nm

Min Tx Power:-19dBm

Max Tx Power:-14dBm

Min Rx Sensitivity:-30dBm

Link budget:11dBm

JetNet 3706f-s, Single-mode: 30KM max. distance

Wave-length:1310nm

Max Tx Power:-8dBm

Min Tx Power:-15dBm

Min Rx Sensitivity:-34dBm

Link budget:19dBm

#### 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)

### Power Requirements

**System Power:** Support positive or negative power system with DC 24~50V power input range and polarity reverse 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:

0.68kg with package

0.64kg without package

### Environmental

**Operating Temperature:** -10 ~ 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:

EN61000-4-2:1998, 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

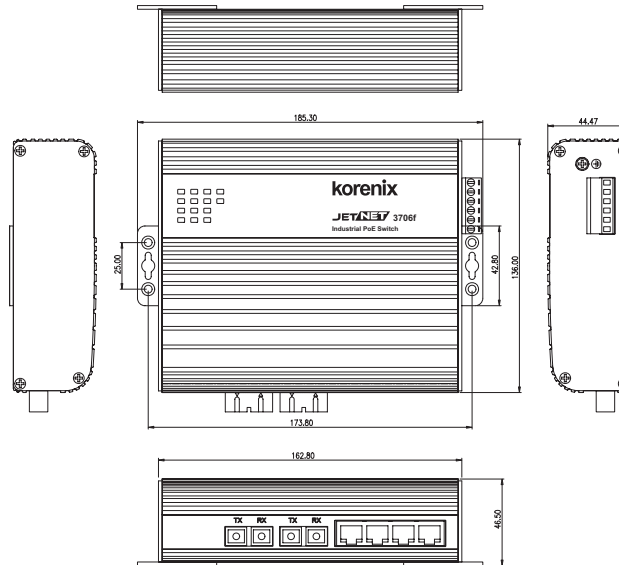
**Vibration:** IEC60068-2-6

**Free Fall:** IEC60068-2-32

**MTBF:** 272,306 Hours, MIL-HDBK-217F GB standard

**Warranty:** 5 years

## Dimensions



## Ordering Information

### JetNet 3706f-m Industrial 6-10/100TX + 2 100FX Web-Managed PoE Switch, Multi-mode 2KM/SC

Includes:

- JetNet 3706f-m, four PoE injectors plus two 100FX Multi-mode fiber ports, 2KM/SC connector
- Quick Installation Guide
- CD-User Manual
- DIN Rail Mount kit

### JetNet 3706f-s Industrial 6-10/100TX + 2 100FX Web-Managed PoE Switch, Single-mode 30KM/SC

Includes:

- JetNet 3706f-s, four PoE injectors plus two 100FX Single-mode fiber ports, 30KM/SC connector
- Quick Installation Guide
- CD-User Manual
- DIN Rail Mount kit

## Optional Accessories

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