JetNet 3705f / 3705f-w
Industrial 5-port Unmanaged PoE Fiber Switch

- Four 10/100 TX Power Over Ethernet ports and one 100 FX uplink port
- 30KM for Single-Mode / 2KM for Multi-Mode Fiber Uplink Port
- 15.4W Full Power Delivery per PoE Port
- Relay Alarm for Port Failure
- Terminal Block Power Input for Industrial Application.
- DC Jack Power Input for External Power Adapter
- End-Point PoE Architecture
- Easy Configuration by DIP Switch
- DIN-Rail/ Wall-mounting and Desktop Installation
- -10~70°C operating temperature for hazardous environment application (JetNet 3705f-w -40~70°C)

CE FC RoHS

Overview

JetNet 3705f, the winner of Best Choice of Computex Taipei 2007 Award, is an Industrial PoE switch delivers powers over UTP/STP cable not only yield a cost-effective and space-saving network, but also improve power utilization and centralize power management. The JetNet 3705f is equipped with 4 PoE injector switch ports, delivers up to 15.4 watts in each port, and one 100FX Up-link port forwarding data to the remote end. The JetNet 3705f conforms to IEEE 802.3af Power over Ethernet (PoE) standard. The Power Over Ethernet technology can power up PoE enabled powered devices in full capability, e.g. IP surveillance camera, wireless Access Point, VoIP phone set, POS system, industrial sensors, controllers and security card reader. By connecting an external 48VDC power supply, JetNet 3705f is able to perform power and data transmission to send/receive over the same UTP/STP cable in each of the four PoE ports. To meet the requirements of operating under harsh environment, JetNet 3705f uses a robust aluminum case, offers IP31 protection, and supports alarm relay output. The JetNet 3705f provides standard industrial terminal block for the power and alarm relay contact output to alarm any port malfunction or power failure. For the user's convenience, it also provides a DC jack for the traditional AC/DC power adapter.

48V Power Over Ethernet System

Korenix JetNet 3705f is an Industrial 4-port PoE injector Switch with one 10/100TX Up-link port. The PoE port provides 10/100Mbps Ethernet speed and is conformed to IEEE802.3af PSE standard with 15.4W full power forwarding ability.

To meet requirements of Industrial application, JetNet 3705f equipped 2 power inputs and provides real-time relay alarm mechanism for the power or port event alert. To operate correctly in a harsh environment, JetNet 3705f adopts aluminum case with excellent heat radiation, and the self-diagnostic LED display including power, port link and PoE power status on the top of the switch for real time monitoring.

The JetNet 3705f is compliant with IEEE802.3af standard plus over current and short current protections to avoid damaging other powered device.

Application

High Layer Switch

Monitor & Control Center

Long Distance Fiber

2 x DC48V Input

Alarm Relay Output

JetNet 3705f

Data & DC48V

Wireless AP

PoE IP Camera

Ceiling Type PoE IP Camera

Outdoor
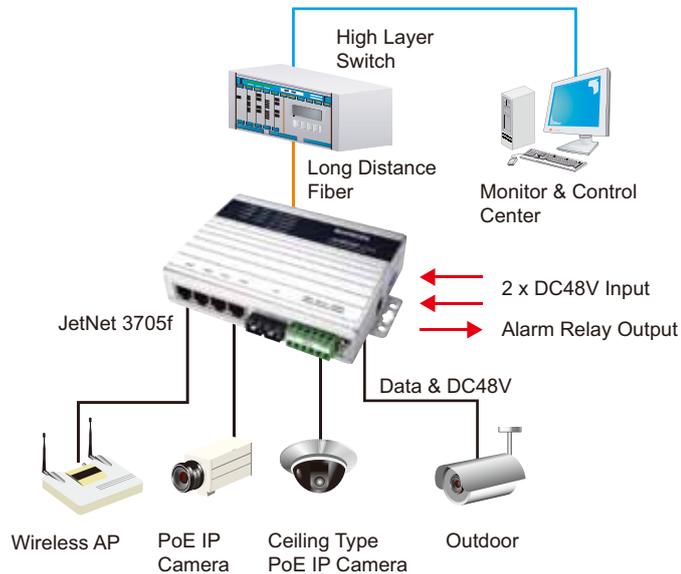
IP Surveillance Appication

Dimensions (Unit –mm)

165.30
153.80
36.90
25.00
42.80
111.50
142.80
38.94
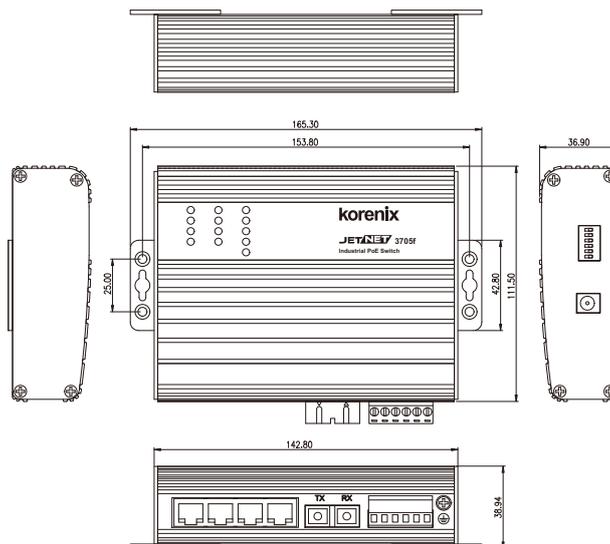
Specification

Technology

Standard:

IEEE802.3 10Base-T

IEEE802.3u 100Base-TX/100Base-FX

IEEE802.3af Power over Ethernet

IEEE802.3x flow control

Switch Technology: Store and forward technology and with 3.2Gbps internal switch fabric.

Aggregate System Throughput: 1.49Mpps

MAC Address: 1K MAC address Table

Packet Buffer: 512Kbits

Power over Ethernet port:

Port 1~4, with 15.4w full power forwarding ability

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

PoE output voltage: DC 44~57V

Interface

Number of Ports: 4 x 10/100 Base-TX with Power over Ethernet injector ,Auto MDI/MDI-X, Auto-Negotiation 1 x Fast Ethernet Fiber

Connectors: 10/100 Base-TX: RJ-45

Fast Ethernet Fiber: SC

Power/Relay: 6-Pin Terminal Block

DC-Jack

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

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

Fiber port: Multi-mode (JetNet 3705-m) /

Single mode (JetNet 3705f-s)

Fiber Port parameters:

Wavelength: 1310nm(Multi mode/Single mode)

Available distance: 2km(Multi-mode)/30km(Single mode)

Min. TX power:

-19 dBm(Multi-mode)/-15 dBm(Single mode)

Max. TX power:

-14 dBm(Multi-mode)/-8 dBm(Single mode)

Sensitivity: -31 dBm(Multi-mode)/-34 dBm(Single mode)

Port Alarm DIP Switch:

DIP 1~5: Enable (On) or Disable (Off)

port link down alarm from port 1 to port 5

DIP 6: Enable (On) or Disable (Off) power alarm

Diagnostic LED: Power x 3 (Green), Fault x 1(Red)

PoE x 4(Green),Link/Activity x 5 (Green on / Green Blinking)@100Mbps, (Yellow on/Yellow Blinking)@10Mbps

Power Requirements

System Power

Input Voltage: 48VDC or -48VDC, dual power inputs in terminal block connection

AC/DC Power Adapter 48VDC/1.6A (option)

One DC jack for AC/DC power adapter

Reverse Polarity Protection: Present

Power Consumption: 6.5Watts without PD loading

70Watts with PD full loading

Mechanical

Installation: DIN-Rail mount, Wall mount or Desktop

Case: IP-31 grade aluminum metal case

Dimension: 33.8 mm (H) x 164.8 mm(W) x 108 mm (D)

Environmental

Operating Temperature: -10 ~70℃

(JetNet 3705f-w -40~70℃)

Operating Humidity: 0% ~ 95%, (non-condensing)

Storage Temperature: -40 ~ 80 ℃

Storage Humidity: 0%~ 95%, (non-condensing)

Regulatory Approvals

Hi-Pot : 1.2KV testing passed on port to power

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: CE/EN60950

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

MTBF: 473,362 Hours, MIL-HDBK-217F GB standard

Warranty: 5 years

Ordering Information

JetNet 3705f-m Industrial 5-port unmanaged PoE Fiber Switch, 1 SC/Multi-mode, 2KM

JetNet 3705f-s Industrial 5-port unmanaged PoE Fiber Switch, 1 SC/Single-mode, 30KM

Includes:

- JetNet 3705f-m / JetNet 3705f-s
- Quick Installation Guide
- CD User Manual
- DIN Rail Mount Kit

Optional Accessories

- DC 48V Power Adapter: U65S111-P2J
- DC 48V Din-Rail Power: DR-75-48
- DC 48V Din-Rail Power: MDR-100-48