

JetNet 3705 / 3705-w

Industrial 5-port Unmanaged PoE Switch



CE FC  RoHS

- Four 10/100 TX Power Over Ethernet ports and one 10/100 TX 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
- -20~70°C operating temperature for hazardous environment application (JetNet 3705-w -40~70°C)

Overview

JetNet 3705, 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 3705 is equipped with 4 PoE injector switch ports, delivers up to 15.4 watts in each port, and one 10/100Base TX Up-link port forwarding data to the remote end. The JetNet 3705 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 DC 48V power supply, JetNet 3705 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 3705 uses a robust aluminum case, offers IP31 protection, and supports alarm relay output. The JetNet 3705 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

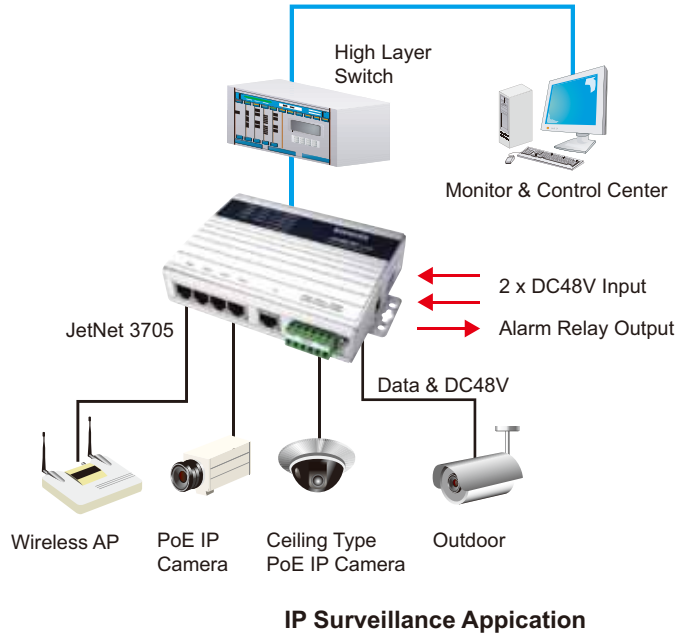
Korenix JetNet 3705 is an Industrial 4-port PoE injector Switch with one 10/100TX Up-link port. The PoE port provides 10/100Mbps Ethernet speed and is conformed to IEEE802.3af PSE standard with 15.4W full power forwarding ability.

To meet requirements of Industrial application, JetNet 3705 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 3705 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 3705 is compliant with IEEE802.3af standard plus over current and short current protections to avoid damaging other powered device.

Application



Industrial
PoE Switch

IP67/68
Ethernet Switch

Rackmount
Managed
Switch

Gigabit Switch

Redundant
Switch

Entry-Level
Switch

Networking
Computer

Communication
Computer

Ethernet
I/O Server

Serial Device
Server

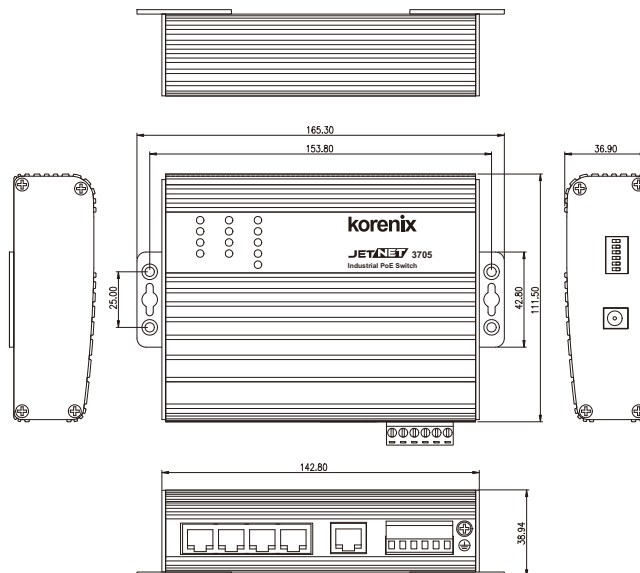
Media
Converter

Multiport
Serial Card

SFP Module

Din Rail
Power Supply

Dimensions (Unit –mm)



Specification

Technology

Standard:

IEEE802.3 10Base-T
 IEEE802.3u 100Base-TX
 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 10/100 Base-TX uplink port

Connectors:

10/100 Base-TX: RJ-45
 Power/Relay: 6-Pin Terminal Block
 DC-Jack

Cables:

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)

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 DC 48V/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 or Wall Mount

Case: IP-31 grade aluminum metal case

Dimension:

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

Environmental

Operating Temperature: -20 ~70°C

(JetNet 3705-w -40~70°C)

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

Storage Temperature: -40 ~ 80 °C

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: 517,810 Hours, MIL-HDBK-217F GB standard

Warranty: 5 years

Ordering Information

JetNet 3705 Industrial 5-port Unmanaged PoE Switch

Includes:

- JetNet 3705
- Wall mount panel kits
- Quick Installation Guide
- CD User manual

Optional Accessories

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