JETPoE
Industrial PoE Switch

Global Exclusive!

New PoE+ Managed Switch

JetNet 4706 Industrial 6-port Managed PoE+ Switch

- 4 PoE+ and 2 Redundant Uplink Ports
- PoE+ High Power 30W / port
- Supports 24V and 48V PoE
- PoE Hour / Week Schedule
- Auto Reset Powered Device
- Rapid Super Ring Recovers Network in < 5ms

JetNet 4706

Industrial Design -20~60°C or -40~80°C PoE Switch
Fanless, Anti-Shock, IP31, 1200V Hi-Pot

JetNet 3705	JetNet 3705f	JetNet 3706	JetNet 3706f	JetNet 4706	JetNet 4706f
Unmanaged PoE Switch	Unmanaged PoE Fiber Switch	Web-Managed PoE+ Switch	Web-Managed PoE+ Fiber Switch	Redundant Managed PoE+ Switch	Redundant Managed PoE+ Fiber Switch

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Your Industrial Computing & Networking Partner

Korenix Industrial Product Selection Guide - PoE Switch





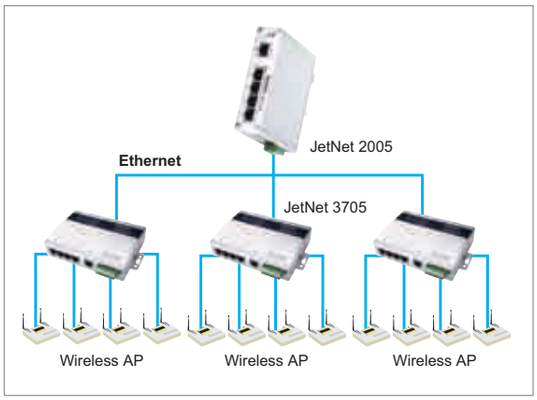

	JetNet 4706	JetNet 4706f	JetNet 3706	JetNet 3706f	JetNet 3705	JetNet 3705f
	Mamaged PoE Switch		Web-Managed PoE Switch		PoE Switch	
Number of Ports:10/100Base-TX	6	4	6	4	5	4
Number of Ports: PoE Injector	Port 1~4	Port 1~4	Port 1~4	Port 1~4	Port 1~4	Port 1~4
Number of Ports:100Base-FX		2		2		1
(Multi Mode Fiber)		JetNet 4706f-m		JetNet 3706f-m		JetNet 3705f-m
(Single Mode Fiber)		JetNet 4706f-s		JetNet 3706f-s		JetNet 3705f-s
PoE Wiring Pins	4,5,7,8	4,5,7,8	4,5,7,8	4,5,7,8	4,5,7,8	4,5,7,8
Power Terminal	DC24 / 48V*2	DC24 / 48V*2	DC24 / 48V*2	DC24 / 48V*2	DC48V*2	DC48V*2
PoE Power	up to 30w / port	up to 30w / port	up to 30w / port	up to 30w / port	15.4w x 4	15.4w x 4
Power Jack					DC48V*1	DC48V*1
Fault Relay Output	●	●			●	●
1200VAC HIPOT	●	●	●	●	●	●
Rigid Aluminum Case	●	●	●	●	●	●
Case Protection	IP 31	IP 31	IP 31	IP 31	IP 31	IP 31
Dimensions (unit=mm)	174.8(W) x 46.5(H) x 136(D)		174.8(W) x 46.5(H) x 136(D)		164.8(W) x 33.8(H) x 108(D)	
Operating Temperature	-20~60°C	-10~60°C	-20~60°C	-10~60°C	-20~70°C	-10~70°C
DIN-Rail Kit	●	●	●	●	●	●
Web-based Configuration	●	●	●	●		
Windows Utility (JetView)	●	●	●	●		
Secured HTTPS,SSH	●	●				
Super Ring, RSTP	●	●	●	●		
Couple Ring, Dual Homing	●	●				
IGMP Snooping & IGMP Query	●	●				
Port - Based VLAN	●	●				
Quality of Service	●	●	●	●		
SNMP V1/V2C/V3	●	●				
RMON1	●	●				
SMTP(e-mail warning)	●	●				
Syslog	●	●				
Certifications						
Regulatory Approvals:CE / FCC / UL	●	●	●	●	●	●
RoHS / WEEE	●	●	●	●	●	●

Applications

Wireless LAN with Industrial Power Source PoE Switch Application

Adapting ODMA (Opportunity-Driven Multiple Access) technology well-integrated the access points of WiFi & WiMAX and automatically select the best signal for fastest data transfer. Auto roaming connection to provide the function of WLAN on-line for viewing multi-media program, web surfing and instant message.

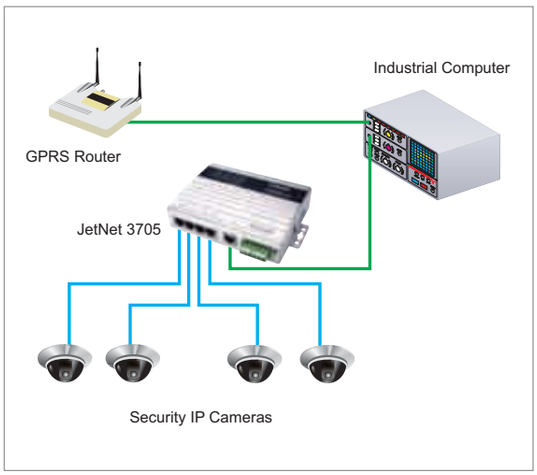
PoE JetNet 3705 provides the DC power to PD-enabled 802.11g/b wireless Access Point for Hot Spot application.



PoE IP Surveillance System in Public Transportation—Bus

Security of public transportation is a rising concern to government authority since the 9-1-1 terrorist attack; thus IP surveillance has been implemented. By using the DC power from bus battery, the JetNet 3705 can provide the video data forwarding and DC power to IP video camera at the same time. It also saves the efforts of wiring power cable to the IP camera, and the video captured by the IP camera can be transmitted to security control center via GPRS router or simply save it in local hard drive.

Korenix JetNet 3705 is an industrial-grade switch that is anti-vibration, anti-shock, and reliable with operating temperature from -10~70^{O}C; a self-diagnostic LED on the front panel for easy troubleshooting. Korenix JetNet 3705 is definitely your best choice for public transportation networking.



WiMax Network on Trains and Pubic Transit System

It is a world trend in the provision of broadband data communication to trains or any other types of transit vehicles that passengers can have a reliable and seamless Internet connection without utilizing the mobile phones, cables or adapters.

The train-borne WLAN system sends out wireless signal around the rail carriages, allowing passengers to connect to the Internet through a WiMax control box located on the train and powered by PoE(Power over Ethernet) technology. In addition to its power supplying capability, JetNet 4706 also features Power Scheduling Control, VLAN, QoS and SNMP management software to configure the PoE devices.

The storage environment for PoE devices is often separated from passengers and located in hot and humid storage room without air conditioning; therefore, the product must be anti-shock, wide-ranged operation temperature and waterproof. The award-winning mechanical design of JetNet PoE switch series is the best choice for such industrial grade PoE application, and of course, WiMax Internet connect.

High Tech Talk

PoE Technology – 30W High Power

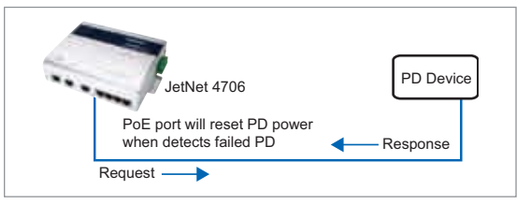
We provide 30W High Power PoE switch - JetNet 4706 is in compliance with IEEE802.3af Power over Ethernet standard and also provides 30W PoE High power forwarding ability.
The control mode supports IEEE802.3af standard, Manual and Ultra mode for 30W Hi-power. The maximum deliver power on each PoE port is 12.915W@DC 24V input ~30W @ DC55V input with 0.615A current.
About PD classification detection, class ID 0~3 follow IEEE802.3af standard, and 30W High power deliver procedures for class ID 4.
In fact, 30W High Power is our exclusive patent, JetNet PoE switch series not only deliver 15.4W by CAT-5 cable but also 30W high power, it is unquestionably the best technology innovation.

24V / 48V Dual Mode PoE System

To apply in a non-standard power source system, JetNet 4706 is equipped with dual mode PoE powering mechanism, which detects input power voltage and executes detection, classification, powering and disconnection processes. This feature is very suitable for Transit System with DC24V power system, or any application without DC48V power source.

Smart PD Status Detection Function - LPLD

The Link Partner Line Detect function (LPLD) is avaliable on PoE port only and provides a period of automatic detect function for PD status. If the PD is failed or not responding to PoE Switch, JetNet PoE Switch would turn off then turn on the PoE power to emulate PD reset function. The LPLD function saves time to maintain and make PoE PD more reliable.



Weekly Scheduling PoE Power Control

Each PoE port would be active and power with different schedule control, it is an UPS-like scheduling control for PoE power delivery and it provides an user -friendly weekly scheduling control by hourly basis. Each port can be configured with different rules. This feature can also save the power and meets economic resource management requirement.

JetNet 4706

Industrial 6-Port Managed PoE Switch

CE FC cULus LISTED RoHS

- Four 10/100 TX Power over Ethernet ports and two redundant 10/100 TX uplink ports
- Dual mode PoE design to support both DC 48V and DC 24V
- Up to 30W per port for High Power solution
- PoE control and schedule by hour/weekly basis
- Auto-detect Powered Device status for device auto-reset (LPLD)
- Patented Rapid Super Ring technology (RSR), back up system recovery time less than 5ms
- SNMP v1/v2c/v3, IGMP snooping v1/v2/v3, RMON, LACP, VLAN, QoS
- Network security by IP/MAC address, SSL and SSH
- Built-in hardware watchdog timer for system auto-reset
- Aluminum rugged enclosure with IP-31 grade protection

Overview

JetNet 4706, an improved and strengthen manageable industrial PoE switch, is the successor of Best Choice of Computex Taipei 2007 Award winner, the JetNet 3705/3705f. JetNet 4706 is designed for industrial PoE applications such as IP surveillance or wireless access points, where power source is not conveniently located. It supports intelligent PoE control and schedule management; each of the four PoE ports can be configured in a weekly schedule by hourly basis and PoE on/off can be remote controlled via SNMP and Web. JetNet 4706 is compliant to both IEEE 802.3af PoE as well as the pioneer standard of IEEE802.3at PoE Plus design (enhancement of 802.3af) for boosting PoE delivery up to 30W in each of the four PoE ports. JetNet 4706 can auto-detect 24V & 48V power input and deliver 24V & 48V PoE output allows more applications where 48VDC is not an option.

The two uplink ports of JetNet 4706 series can be configured as Rapid Super Ring ports recovering network failure in less than 5ms, or RSTP ports integrating with other standard switches. Full network management features such as SNMP v3, QoS, IGMP v3, LACP port trunk are all supported. If the powered device fails to respond after a pre-configured time interval, JetNet 4706 will reboot the powered device and continue to monitor the powered device in every pre-configured time interval. Also, unmanageable powered devices can be managed through JetNet 4706 software. The award-winning IP-31 rigid aluminum flat casing and wide operation temperature range ensure a reliable operation in places such mass transit vehicles or outdoor usage.

Easy PoE Configuration

The four PoE ports can be configured to enable, disable, or schedule PoE function by the web interface. The Power mode provides Standard mode for IEEE 802.3af PD, Manual mode for user configuration of the power limit to IEEE 802.3af standard PD, or Ultra mode for user configuration to perform at the 30w power limitation. After configuration, the real-time status of PoE is shown in web interface.

Scheduling PoE Control

The concept from UPS power scheduling control is used for JetNet 4706 PoE power delivery. JetNet 4706 can follow the weekly schedule on an hourly basis to power on/off on any given PoE port. Each PoE port can apply to different schedules. This feature helps you to save time and money for power on/off maintenance.

A Non-Stop Transmission Network with PoE Function - R.S.R. & Dual Homing II

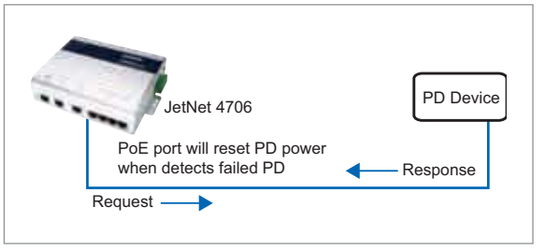
The two uplink 10/100TX or 100FX ports allow users to build Redundant Ring architecture with other High-End Switches by RSTP or Korenix Rapid Super Ring (R.S.R.). The RSR Topology brings the back-up network in less than 5ms when the main path is disconnected. To integrate with Core Switches, JetNet 4706 provides Dual Homing II function which merges R.S.R. and RSTP protocol in one redundant port.

Quality of Service & Port Based VLAN

In video surveillance applications, JetNet 4706 supports Port-Based VLAN to limit a broadcast domain to specific members of a group by physically grouping the members together. In addition, JetNet 4706 supports QoS function to enhance transmission performance if needed. These features guarantee real time service by segmentation and prioritization.

Smart Powered Device Alive-Check

JetNet 4706 can be configured to run linking Powered Device alive check continuously to detect the real-time status. If the PD fails to respond, JetNet 4706 will turn-off and then turn-on the PD's power to trigger remote PD cold start process. The connected PD can be automatically managed and reboot by JetNet 4706.



Versatile Management Interfaces

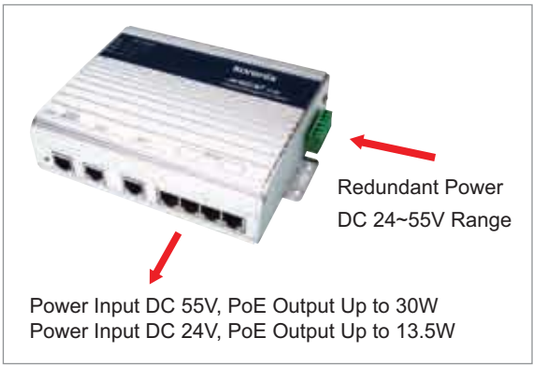
JetNet 4706 supports versatile management interfaces including HTTPS secured web console, SSH console, SNMP v1/v2c/v3, and RS232 CLI console. Real-time status such as port status, PoE status, PD status are all shown in all management consoles. JetNet 4706 supports quick installation by JetView, which is Korenix multi-platform utility for device discovery, IP setting, configuration back-up & restore, and firmware upgrade functions.

DC 24V & DC 48V Power Over Ethernet System

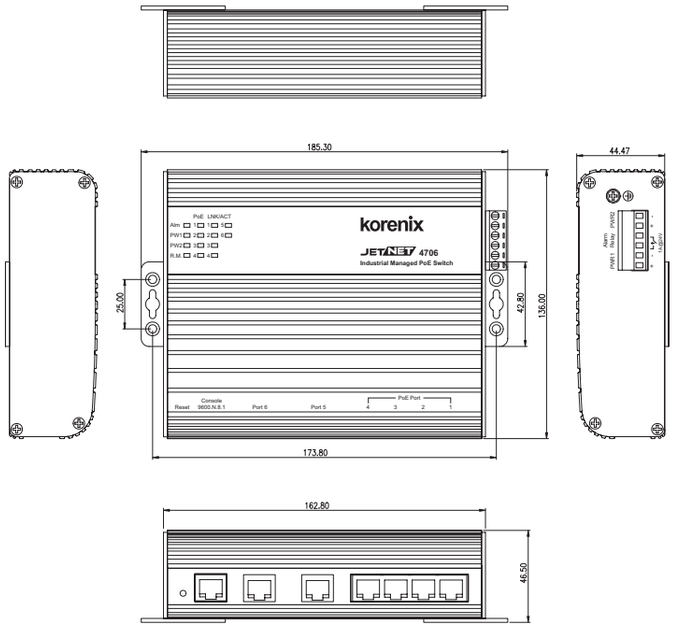
JetNet 4706 accepts dual-mode PoE by 24V or 48VDC. JetNet 4706 is able to detect different input power voltages and to perform powered devices detection, classification, powering and disconnection processes automatically. The dual-mode PoE powering is very useful for public transportation systems with DC24V power supply, or any applications without DC48V power source.

High Power Forwarding System

The IEEE802.3af Power over Ethernet standard specifies 15.4w power budget for PD system. However, 15.4w is not enough for some applications. JetNet 4706 follows two PoE mechanisms, IEEE802.3af and High Power pre-standard IEEE802.3at for 30W power budget. To recognize the PD classification ID, a powerful micro-processor is used in JetNet 4706 for power detection, classification, powering and disconnection processes. The JetNet 4706 can power PD with different PD classification ID. For the IEEE802.3af standard PD, the JetNet 4706 supports maximum 61.4W power forwarding ability with DC 48V power.



Dimensions



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 Cilent 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 comforms with IEEE802.1D 2004 edition for RSTP and STP standand protocoes
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 specifc 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)
Rest 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

JetNet 4706f

Industrial 6-Port Managed PoE FiberSwitch

CE FC cULus LISTED RoHS

- Four Managed Power over Ethernet switch with 10/100 TX Power Over Ethernet ports and two redundant 100 FX uplink ports
- First dual mode PoE design to support both DC 48V and DC 24V
- Up to 30W per port for High Power solution
- PoE control and schedule by hour/weekly basis
- Auto-detect Powered Device status for device auto-reset (LPLD)
- Patented Rapid Super Ring technology (RSR), back up system recovery time less than 5ms
- SNMP v1/v2c/v3, IGMP snooping v1/v2/v3, RMON, LACP, VLAN, QoS
- Network security by IP/MAC address, SSL and SSH
- Built in hardware watchdog timer for system auto-reset
- Aluminum rugged enclosure with IP-31 grade protection

Overview

JetNet 4706f, an improved and strengthen manageable industrial PoE switch, is the successor of Best Choice of Computex Taipei Award winner, the JetNet 3705/3705f. JetNet 4706f features four 30-Watts 10 / 100 Power over Ethernet Ports with two redundant fiber ports, is an ideal model for distant networking such as IP surveillance, wireless access point…etc, where power source is not conveniently located. It supports intelligent PoE control and schedule management; each of the four PoE ports can be configured in a weekly schedule by hourly basis and PoE on/off can be remote controlled via SNMP and Web. JetNet 4706f is compliant to both IEEE 802.3af PoE as well as the pioneer standard of IEEE802.3at PoE Plus design (enhancement of 802.3af) for boosting PoE delivery up to 30W in each of the four PoE ports. JetNet 4706f can auto-detect 24V & 48V power input and deliver 24V & 48V PoE output allows more applications where 48VDC is not an option.

The two uplink ports of JetNet 4706f can be configured as Rapid Super Ring ports recovering network failure in less than 5ms, or RSTP ports integrating with other standard switches. Full network management features such as SNMP v3, QoS, IGMP v3, LACP port trunk are all supported. If the powered device fails to respond after a pre-configured time interval, JetNet 4706f will reboot the powered device and continue to monitor the powered device in every pre-configured time interval. Simply put, the unmanaged powered devices can be managed through JetNet 4706f. The award winning IP-31 rigid aluminum flat casing and wide operating temperature range both ensure a reliable operation in remote network site such as public transportation station or outdoor usage.

Easy PoE Configuration

The four PoE ports can be configured to enable, disable, or schedule PoE function by the web interface. The Power mode provides Standard mode for IEEE 802.3af PD, Manual mode for user configuration of the power limit to IEEE 802.3af standard PD, or Ultra mode for user configuration to perform at the 30w power limitation. After configuration, the real-time status of PoE is shown in web interface.

Scheduling PoE Control

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A Non-Stop Transmission Network with PoE Function - R.S.R. & Dual Homing II

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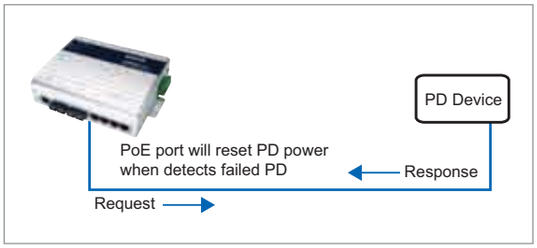

Versatile Management Interfaces

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DC 24V & DC 48V Power Over Ethernet System

JetNet 4706f accepts dual-mode PoE by 24V or 48VDC. JetNet 4706f is able to detect different input power voltages and to perform powered devices detection, classification, powering and disconnection processes automatically. The dual-mode PoE powering is very useful for public transportation systems with DC24V power supply, or any applications without DC48V power source.

Redundant Power
DC 24~55V Range

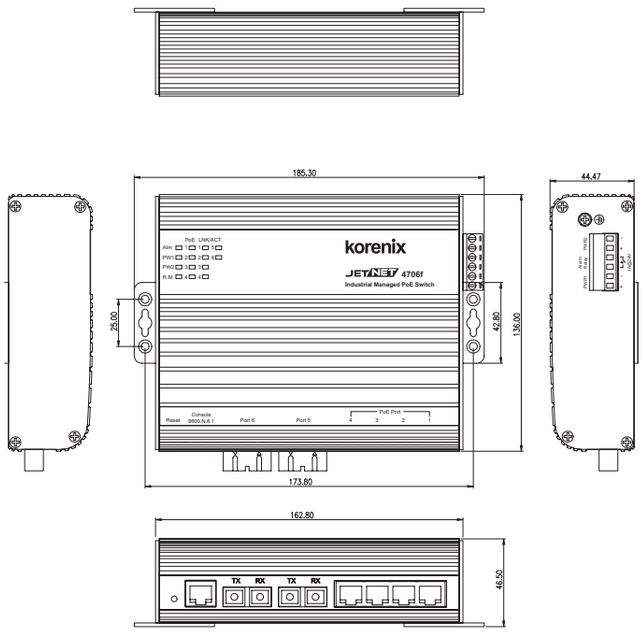
High Power Forwarding System

The IEEE802.3af Power over Ethernet standard specifies 15.4w power budget for PD system. However, 15.4w is not enough for some applications. JetNet 4706f follows two PoE mechanisms, IEEE802.3af and High Power pre-standard IEEE802.3at for 30W power budget. To recognize the PD classification ID, a powerful micro-processor is used in JetNet 4706f for power detection, classification, powering and disconnection processes. The JetNet 4706f can power PD with different PD classification ID. For the IEEE802.3af standard PD, the JetNet 4706f supports maximum 61.4W power forwarding ability with DC 48V power.

Redundant Power
DC 24~55V Range

Power Input DC 55V, PoE Output Up to 30W
Power Input DC 24V, PoE Output Up to 13.5W

Dimensions



Specification

Technology

Standard:
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX/FX
IEEE 802.1p Class of Service
IEEE 802.3af Power Over Ethernet(PoE)
IEEE 802.3at High Power PoE
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 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
SNMP Trap: Provides Cold start, Warm start, Port event, Power event, Authentication failure, PoE trap and Korenix private trap for proprietary functions
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 Cilent 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: 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 4706f provids Dual Homing II technology to conform with RSTP protocol.
JetNet 4706f also conforms with IEEE802.1D 2004 edition for RSTP and STP standand protocoes
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.
LPLD function: The Link Partner Line Detect function (LPLD) is available on PoE ports. With the LPLD function, the PoE port can keep attached PD alive
IP Security: IP security to prevent unauthorized access
Port Security: Port security to assign authorized MAC to specifc port

Interface

Number of Ports:
4 x 10/100Base-TX with PoE Injector
2 x 100Base-FX ports
1 x RS-232 Console
Connectors:
10/100TX: RJ-45
100Base-FX: SC
Console: RJ-45
Power & Relay Alarm: 6-pin Terminal Block
Power Consumption:
8 Watts @ 50V (Maximum) without PD loading
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 50~62.5/125um; Single-mode 8~10/125um
Fiber Transceiver:
JetNet4706f-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 4706f-s, Single-mode: 30KM max. distance
Wave-length:1310nm
Max Tx Power:-8dBm
Min Tx Power:-15dBm
Min Rx Sensitivity:-34dBm
Link budget:19dBm
Rest 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 174.8 mm (W) x 136 mm (D) without DIN-rail mount
Weight:
0.72 kg with package
0.65 kg 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
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
EN61000-4-6:1996,
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

Ordering Information

JetNet 4706f-m Industrial 6-port Managed PoE Ethernet Fiber Switch

Includes:

- JetNet 4706f-m, 4 PoE Injectors plus 2 100Mbps fiber port, 2KM/SC connector
- Quick Installation Guide
- RS-232 Serial cable
- CD User Manual
- DIN Rail Mount Kit

JetNet 4706f-s Industrial 6-port Managed PoE Ethernet Fiber Switch

Includes:

- JetNet 4706f-s, 4 PoE Injectors plus 2 100Mbps fiber port, 30KM/SC connector
- 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

JetNet 3706

Industrial 6-port Web-Managed PoE Switch

CE FC cULus LISTED RoHS

- Four 10/100 TX Power Over Ethernet ports and two 10/100 TX uplink ports
- Support IEEE802.3 at PoE plus
- Dual mode PoE design to support both DC 48V and DC 24V
- Up to 30W per port for High Power solution
- PoE control and schedule by hour/weekly basis
- Patented Rapid Super Ring technology (RSR), back up system recovery time less than 5ms
- Built in hardware watchdog timer for system auto-reset
- Aluminum rugged enclosure with IP-31 grade protection

Overview

JetNet 3706 is designed for industrial PoE applications, such as IP surveillance or wireless access points, where 30W per port and/or 24VDC PoE is required. JetNet 3706 is in compliance with both IEEE 802.3af PoE as well as the pioneer standard of IEEE802.3at PoE Plus design (enhancement of 802.3af) for boosting PoE delivery up to 30W in each of the four PoE ports. Redundant 24~55VDC power inputs guarantees your operation will not be stopped due to power disruption. JetNet 3706 can auto-detect 24V & 48V power input and deliver 24V & 48V PoE output, allowing more applications where DC 48V is not an option.

The award winning IP31 rigid aluminum flat casing and wide operation temperature range ensure reliable operation for mass transit vehicles or outdoor usage.

DC 24V & DC 48V Power Over Ethernet System

JetNet 3706 accepts dual-mode PoE by 24V or 48VDC. JetNet 3706 is able to detect different input power voltages and to perform powered devices detection, classification, powering and disconnection processes automatically. The dual-mode PoE powering is very useful for public transportation systems with DC24V power supply, or any applications without DC48V power source.

Redundant Power
DC 24~55V Range

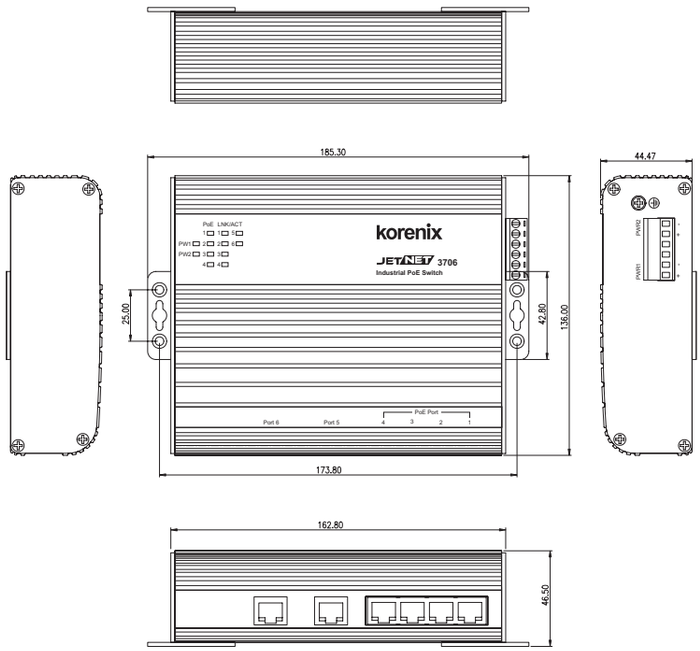
Easy PoE Configuration

The four PoE ports can be configured to enable, disable, or schedule PoE function by the web interface. The Power mode provides Standard mode for IEEE 802.3af PD, Manual mode for user configuration of the power limit to IEEE 802.3af standard PD, or Ultra mode for user configuration to perform at the 30w power limitation. After configuration, the real-time status of PoE is shown in web interface.

Scheduling PoE Control

The concept from UPS power scheduling control is used for JetNet 3706 PoE power delivery. JetNet 3706 can follow the weekly schedule on an hourly basis to power on/off on any given PoE port. Each PoE port can apply to different schedules. This feature helps you to save time and money for power on/off maintenance.

Dimensions



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 standand protocoes
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

JetNet 3706f

Industrial 6-port Web-Managed PoE Fiber Switch

CE FC cULus LISTED RoHS

- Four 10/100 TX Power Over Ethernet ports and two 100 FX uplink ports
- Support IEEE802.3 at PoE plus
- Dual mode PoE design to support both DC 48V and DC 24V
- Up to 30W per port for High Power solution
- PoE control and schedule by hour/weekly basis
- Patented Rapid Super Ring technology (RSR), back up system recovery time less than 5ms
- Built in hardware watchdog timer for system auto-reset
- Aluminum rugged enclosure with IP-31 grade protection

Overview

JetNet 3706f is designed for industrial PoE applications, such as IP surveillance or wireless access points, where 30W per port and DC 24V PoE is required. JetNet 3706f is in compliance with both IEEE 802.3af PoE as well as the pioneer standard of IEEE802.3at PoE Plus design (enhancement of 802.3af) for boosting PoE up to 30W in each of the four PoE ports. Redundant 24~55VDC power inputs guarantees your operation will not be stopped due to power disruption. JetNet 3706f can auto-detect 24V & 48V power input and deliver 24V & 48V PoE output, allowing more applications where DC 48V is not an option.

The award winning IP31 rigid aluminum flat casing and wide operation temperature range ensure reliable operation for mass transit vehicles or outdoor usage.

Easy PoE Configuration

The four PoE ports can be configured to enable, disable, or schedule PoE function by the web interface. The Power mode provides Standard mode for IEEE 802.3af PD, Manual mode for user configuration of the power limit to IEEE 802.3af standard PD, or Ultra mode for user configuration to perform at the 30w power limitation. After configuration, the real-time status of PoE is shown in web interface.

Scheduling PoE Control

The concept from UPS power scheduling control is used for JetNet 3706f PoE power delivery. JetNet 3706f can follow the weekly schedule on an hourly basis to power on/off on any given PoE port. Each PoE port can apply to different schedules. This feature helps you to save time and money for power on/off maintenance.

DC 24V & DC 48V Power Over Ethernet System

JetNet 3706f accepts dual-mode PoE by 24V or 48VDC. JetNet 3706f is able to detect different input power voltages and to perform powered devices detection, classification, powering and disconnection processes automatically. The dual-mode PoE powering is very useful for public transportation systems with DC24V power supply, or any applications without DC48V power source.

High Power Forwarding System

The IEEE802.3af Power over Ethernet standard specifies 15.4w power budget for PD system. However, 15.4w is not enough for some applications. JetNet 3706f follows two PoE mechanisms, IEEE802.3af and High Power pre-standard IEEE802.3at for 30W power budget. To recognize the PD classification ID, a powerful micro-processor is used in JetNet 3706f for power detection, classification, powering and disconnection processes. The JetNet 3706f can power PD with different PD classification ID. For the IEEE802.3af standard PD, the JetNet 3706f supports maximum 61.4W power forwarding ability with DC 48V power.

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 standand protocoes
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

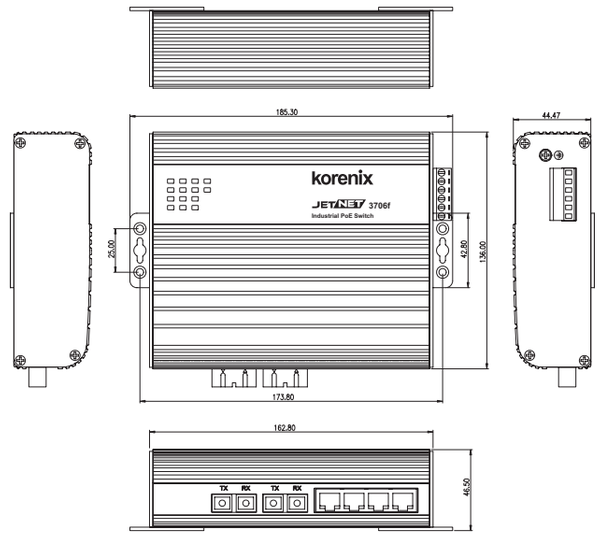
Environmental

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

JetNet 3705

Industrial 5-port Unmanaged PoE Switch

- Four 10/100 TX Power Over Ethernet ports and one 10/100 TX uplink port
- 15.4W full power delivery per PoE port
- Relay alarm for port failure by DIP switch configuration
  Redundant 48VDC terminal block power inputs
- Extra power jack input for external 48VDC power adapter
- Aluminum rugged enclosure with IP-31 grade protection

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 JetNet3705 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

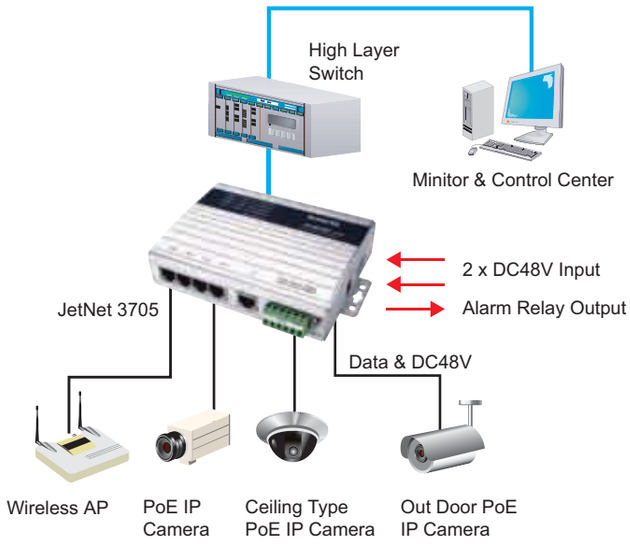
48V Power Over Ethernet System

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.

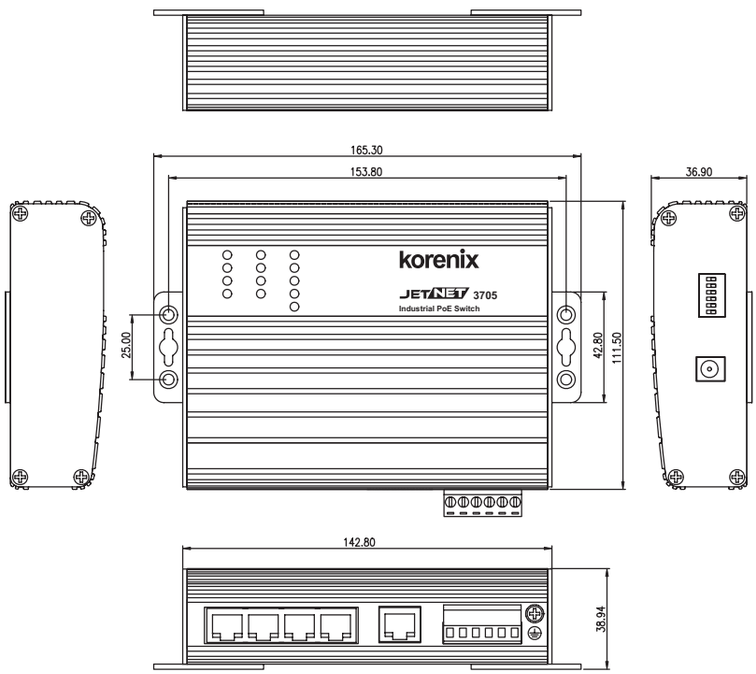
The JetNet 3705 is compliant with IEEE802.3af standard plus over current and short current protections to avoid damaging other powered device.

Application



IP Surveillance Appication

Dimensions



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
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 Ethernet Switch

Includes:

- JetNet 3705, 4-port PoE Injectors plus 1 10/100TX port
- Wall mount panel kits
- Quick Installation Guide
- CD User manual

Optional Accessories

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

JetNet 3705f

Industrial 5-port Unmanaged PoE Fiber Switch

CE FC cULus LISTED RoHS

- Four 10/100 TX Power Over Ethernet ports and one 100 FX uplink port
- 15.4W full power delivery per PoE port
- Relay alarm for port failure by DIP switch configuration Redundant 48VDC terminal block power inputs
- Extra power jack input for external 48VDC power adapter
- Aluminum rugged enclosure with IP-31 grade protection

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 100Mbps FX 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.

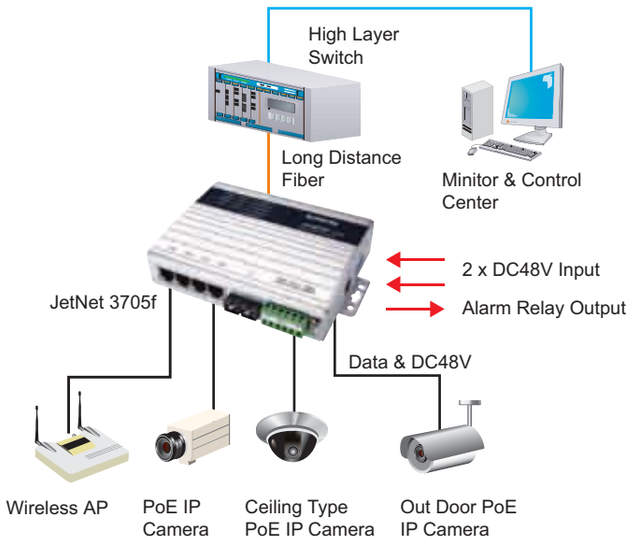
48V Power Over Ethernet System

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.

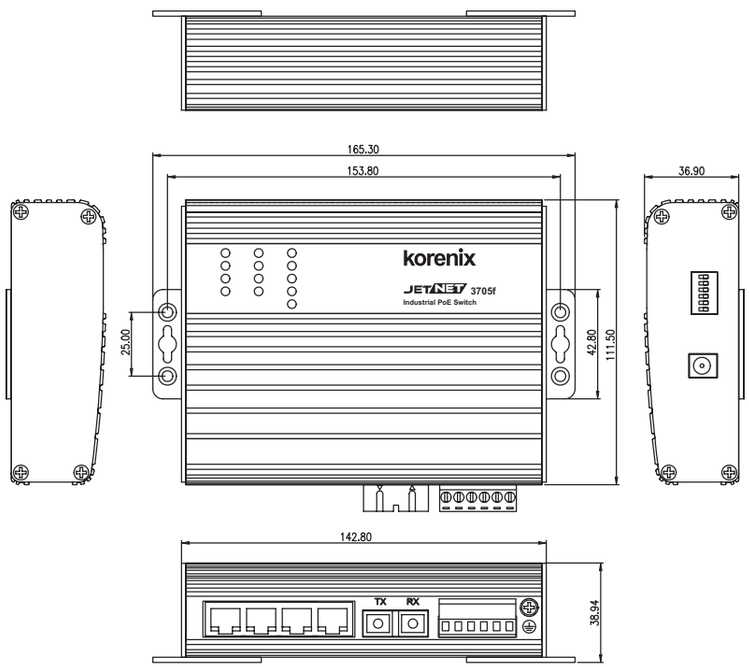
The JetNet 3705f is compliant with IEEE802.3af standard plus over current and short current protections to avoid damaging other powered device.

Application



IP Surveillance Appication

Dimensions



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-568 100-ohm(100m)
100Base-TX: 4-pair UTP/STP Cat. 5 cable, EIA/TIA-568 100-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°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: 473,362 Hours, MIL-HDBK-217F GB standard
Warranty: 5 years

Ordering Information

JetNet 3705f-m Industrial 4-port PoE Switch with one 100TX Switch

Includes:

- JetNet 3705f-m, 4 PoE Injectors plus 1 100Mbps fiber port, 2KM/SC connector
- Quick Installation Guide/CD User Manual/DIN Rail Mount Kit

JetNet 3705f-s Industrial 4-port PoE Switch with one 100TX Switch

Includes:

- JetNet 3705f-s, 4 PoE Injectors plus 1 100Mbps fiber port, 30KM/SC connector
- Quick Installation Guide/CD User Manual/DIN Rail Mount Kit

Optional Accessories

- 48VDC Power Adapter: U65S111-P2J
- 48VDC Din-Rail Power: DR-75-48
- 48VDC PoE Splitter: PD1205