korenix
A Beijer Electronics Group Company

JetNet 3906G Industrial PoE Switch
Quick Installation Guide V1.1

Overview

The JetNet 3906G is a compact size PoE Switch with DC power boosting technology that input DC 12~36V and boost voltage to DC 48V for PoE application. It adopts 4 ports Gigabit Ethernet PoE interfaces with 30W forwarding ability, and the whole system PoE Power feeding ability is up to 110Watts in 65°C environment with DC 24 V input, and 60Watts in 70°C environment with DC 12V input. There are additional one Gigabit RJ-45 and one 100Mbps / 1000Mbps SFP Fiber Socket for system uplink. For more product information please visit Korenix Web site - www.korenix.com.

Note: According to UL IEC 60950-1 criterion, the operating temperature of JetNet 3906G is -40~50°C.

Package Check List

▸ JetNet 3906G with DIN Rail Clip x 1
▸ Quick Installation Guide x 1
▸ 6-Pin removable terminal block x 1
   (attached on the Switch)

Installation

Mounting & Installing the Unit

The DIN rail clip is attached on the rear side of JetNet 3906G. Please install the unit in a standard 35mm EN50022 DIN Rail.

Note: The unit is designed for in-building installation only and is not intended to be connected to exposed (outside plant) networks.

Warning: There are 2 warning labels stick on the JetNet 3906G metal housing to remind the metal parts are hot and should install system at restricted access location.

ATTENTION
⚠ Do not touch hot surface except for maintenance staff.

Powering the Unit

There is one 6-Pin removable terminal block attached on the Switch, it includes 2 sets of power inputs and 1 alarm output. The typical input voltage for JetNet 3906G are DC 12V or DC 24V which are supported by battery or other, and the input range is from DC 12V to DC 36V with polarity reverse protection. The JetNet 3906G is intend to use in the environment where without AC source except DC 12V or DC 24V.

Therefore, to carry the DC current safety that the wire AWG number should smaller than or equal to AWG #13 or the cable's diameter should be at least 1.828mm. The system powering architecture showed as figure below.
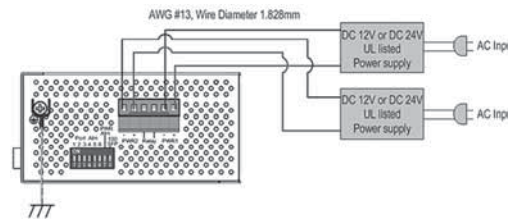

Note: the operating temperature range is from -40°C ~75°C, when the system is in the frozen condition of -40°C than 15 hours, it may need perform power-on twice to ensure the DC booster get ready to offer enough current to activate the PoE system.

Note: the enclosure surface temperature of JetNet 3906G will increase over than 70°C, when it performs PoE power feeding. So, it is recommended the JetNet 3906G should be installed in the control box, to prohibit non-professionals touch and maintenance.

Connecting and Configure the SFP Transceiver port # 6

The SFP link speed is configured by DIP-Switch and active by system reset. Once change the Fiber link speed, the system needs to reset power. Otherwise, the fiber port will not active.
Below flow chart is for SFP transceiver speed type change.
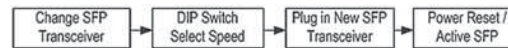
Note: the DIP-Switch #8 is for 100Mbps SFP selection which is located at bottom side. The default setting is off for 1000Mbps SFP fiber link.

Connecting the Gigabit PoE port # 1~4 and Uplink port #5

The Port #1~4 supports IEEE 802.3at PoE standard, and offers 2-Event PoE behavior. Thus, those PoE port can offer 15W/30W power, and system offer 60W with DC12V input under 70°C, or 110W with DC 24V under 65°C operating environment. Both of RJ-45 port #5 and SFP port #6 are independent interface for extra different uplink network media.

Connecting & Active Event Alarm Output

The system offer 1 Dry relay output for power and port link down event. Those events are controlled and activated by one 8-pin DIP-Switch which located at bottom side. Select and click the DIP-Switch to on, then relative alarm monitoring function will be enabled. For more operational information, please visit Korenix Web site – www.korenix.com and get detailed product specification from the hyper link http://www.korenix.com/downloads.htm

---

Support

5 Years Warranty

Each of Korenix's product line is designed, produced, and tested with high industrial standard. Korenix warrants that the Product(s) shall be free from defects in materials and workmanship for a period of five (5) years from the date of delivery provided that the Product was properly installed and used.

This warranty is voided if defects, malfunctions or failures of the warranted Product are caused by damage resulting from force measure (such as floods, fire, etc.), other external forces such as power disturbances, over spec power input, or incorrect cabling; or the warranted Product is misused, abused, or operated, altered and repaired in an unauthorized or improper way.

Attention! To avoid system damage caused by sparks, please DO NOT plug in power connector when power is on.

The product is in compliance with Directive 2002/95/EC and 2011/65/EU of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronics equipment(RoHS Directives & RoHS 2.0)

Korenix Customer Service

KoreCARE is Korenix Technology's global service center, where our professional staffs are ready to solve your problems at any time Korenix global service center's e-mail is KoreCARE@korenix.com.

For more information and documents download please visit our website:
http://www.korenix.com/downloads.htm