VOLKTEK

Quick Installation Guide
9005-16GP2GS Series

1. Overview

The 9005-16GP2GS Series Managed Gigabit switches are designed for the growing demands of IP surveillance applications. It is suitable for hardened environments with fanless requirements. The switch is equipped with 16 PoE+ (802.3af/at) ports that deliver 10/100/1000Mbps speeds and dual-speed FX/GbE SFP with layer 2 software features for smart surveillance applications.

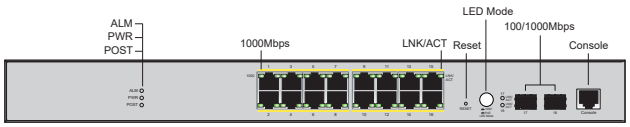
2. Package Checklist

The switch is shipped with the following items*.
If any of these are missing or damaged, please contact your customer service representative for assistance.

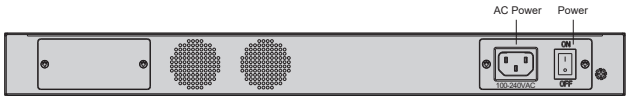
- The Switch x 1
- Quick Installation Guide x 1
- Rack-Mount Kit x 1
- Console Cable x 1
- Power Cord x 1
- Rubber Foot x 4

* Visit our product webpage to locate your model and download the user manual.
* Contents of the package can be adjusted based on customer demand.

Panel View



Front View



9005-16GP2GS-A-H / 9005-16GP2GS-A-C Back View



9005-16GP2GS-D-I Back View

3. Mounting and Dismounting to Rack

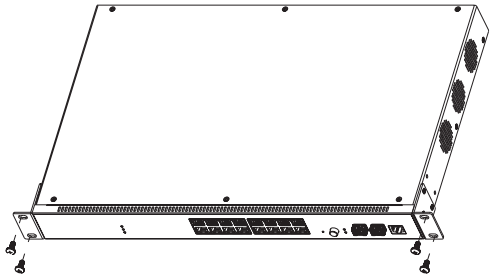
ATTENTION:
The switch is an open type device and shall be Rack mounted in 19'' cabinet and the ambient temperature should not exceed the operating temperature.

Mounting the switch

Attach brackets to each side of the switch and place the brackets in the rack's slots. Insert and tighten screws to securely attach the bracket to the rack on each side.

Dismounting the switch

Loosen the screws attach the bracket to the rack on each side.



ATTENTION:
When installing, make sure to allow for enough space between devices to properly install the cabling. And provide ample space for air flow.

4. Wiring Requirements

The Switch is capable of connecting up to 16 network devices on RJ45 ports and 2 in fiber connection at Fast Ethernet, or Gigabit Ethernet speeds.

WARNING:
Safety measures should be taken before connecting the power cable. Turn off the power before connecting modules or wires. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure that you are using the correct voltage. DO NOT use a voltage greater than what is specified on the product label. Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If current exceeds the maximum rating, the wiring can overheat causing serious damage to your equipment.

Please read and follow these guidelines:

- Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross make sure the wires are perpendicular at the intersection point.
  Note: Do not run signal or communications wiring and power wiring through the same wire conduit. To avoid interference, wires with different signal characteristics should be routed separately.
- You can use the type of signal transmitted through a wire to determine which wires should be kept separate. The rule of thumb is that wiring that shares similar electrical characteristics can be bundled together
- You should separate input wiring from output wiring
- We advise that you label the wiring to all devices in the system

4.1 Wiring Power Input

4.1.1 The Switch with power input

The Switch uses an AC power supply of 100~240VAC, 50/60 Hz through power cord or different type of power source depending on the model version as seen below.

• 9005-16GP2GS-A-H: With AC power inlet

• 9005-16GP2GS-A-C: With AC power inlet

• 9005-16GP2GS-D-I: With 48V DC power connector

Follow the steps below:

1. Insert the power cord into the power inlet of the device.
2. Plug the power cord into an available power socket.
   Note: Confirm the power cable is compatible with the receptacle type and electrical current in your country. If you need to change it, you must use a power cable that has been approved for the receptacle type and electrical current in your country.
3. Make sure the power connector is securely attached at both ends. Check the front-panel LEDs when you plug the device to verify that the Power LED turns on.

ATTENTION:
Please use an AC power supply 100~240VAC, 50/60 Hz.

4.1.2 The switch with DC power input

The Switch uses DC 48-57V power supply at a maximum of 15A DC power to the power terminal.

To install the power supply follow the instruction below:

1. Use cross-head screw driver to loosen the wire-clamp screws.
2. Insert the negative/positive DC wires into the -/+ terminals, respectively.
3. Tighten the wire-clamp screws to prevent the wires from loosening.

Because the power consumption is more than 500Watt for whole system, please MUST use two pairs power inputs which is on the back side panel.

4.2 Installing the SFP modules and Fiber cables

1. Slide the selected SFP module into the selected SFP slot (Make sure the SFP module is aligned correctly with the inside of the slot).
2. Insert and slide the module into the SFP slot until it clicks into place.
3. Remove any rubber plugs that may be present in the SFP module's mouth.
4. Align the fiber cable's connector with the SFP module's mouth and insert the connector.
5. Slide the connector in until a click is heard.
6. If you want to pull the connector out, first push down the release clip on top of the connector to release the connector from the SFP module.

To properly connect fiber cabling: Check that the fiber terminators are clean. You can clean the cable plugs by wiping them gently with a clean tissue or cotton ball moistened with a little ethanol. Dirty fiber terminators on fiber optic cables will impair the quality of the light transmitted through the cable and lead to degraded performance on the port.

Note:
When inserting the cable, be sure the tab on the plug clicks into position to ensure that it is properly seated.

Check the corresponding port LED on the Switch to be sure that the connection is valid. (Refer to the LED chart).

5. LED Indicators

PWR (Green)	Illuminated	Primary Power on
	Off	Primary Power off or failure
POST (Green)	Illuminated	Switch is ready or running
	Blinking	Self-testing the device when power On
	Off	Switch is not ready
ALM (Red)	Illuminated	Alarm triggered for abnormal power status or anomalous features.
	Off	Normal operation
1000/PoE (Green) 1~16th RJ45 port	Illuminated	1000 mode: Link speed at 1000Mbps PoE mode: PoE power is delivered to powered device (PD)
	Off	1000 mode: Link speed at 10/100Mbps PoE mode: PoE power feeding is off or not supplied
LNK/ACT (Green) 1~16th RJ45 ports	Illuminated	Port link-up
	Blinking	Activity (receiving or transmitting data)
	Off	Port disconnected or link failed
LNK/ACT (Green) 17~18th fiber port	Illuminated	Port link-up
	Blinking	Activity (receiving or transmitting data)
	Off	Port disconnected or link failed

6. Environmental Limits

Operating Temperature	9005-16GP2GS-D-I: -40°C to 70°C (-40°F~158°F) 9005-16GP2GS-A-H: -10°C to 60°C (14°F~140°F) 9005-16GP2GS-A-C: 0°C to 50°C (32°F~122°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Ambient Relative Humidity	5 to 95% (non condensing)

ATTENTION:
This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

ATTENTION:
If the equipment is used in a manner not specified by Volktek, the protection provided by the equipment may be impaired.

7. Configuration

Connect through Web Browser:

- Connect your computer to one of the Ethernet ports.
- Use the default IP-address 192.168.0.254 to login to the switch.

Default Username	admin
Default Password	admin

Note:
For more details on configuration please refer manual of the switch.

Connect through Console Port:

- Connect your computer to the console port on the Switch using the appropriate cable.
- Use terminal emulation software with the following settings:

Default Settings for the Console Port

Setting	Default Value
Terminal Emulation	VT100
Baud Rate	38400
Parity	None
Number of Data Bits	8
Number of Stop Bits	1
Flow Control	None

- Press [ENTER] to open the login screen.

Setting	Default Value
Default Username	admin
Default Password	admin

LIMITED WARRANTY

VOLKTEK Corporation warrants this product against defect in materials and workmanship for a period of TWO (2) YEARS to the original purchaser.

If you discover a defect, VOLKTEK will, at its sole option, repair or replace the product at no additional charge, provided that you contact VOLKTEK technical support to obtain a Return Merchandise Authorization Number (RMA) and instruction on how and where repairs can be made. This warranty does not apply if the product has been damaged by accident, abuse, misuse, misapplication, neglect, fire, water, lightning or other acts of nature, failure to follow supplied instructions, installation or removal, have been repaired or have undergone attempted repair by unauthorized personnel without written consent from VOLKTEK, modified, defaced, or has its serial numbers removed. VOLKTEK reserves the right to use remanufactured, refurbished, or used parts and components in making warranty repairs.

All expressed or implied warranties for this product, including the implied warranties of merchantability and fitness for a particular purpose are limited in duration to the warranty period. No warranties expressed or implied will applied after this period. VOLKTEK shall not be liable for lost profits, damage to other property caused by any defects of this product, or damages based upon inconvenience, loss of product use, loss of time, commercial use, incidental and/or consequential damages for the breach of any expressed or implied warranty, including damages to property, and to the extent permitted by law, damages for personal injury, even if VOLKTEK has been advised of the responsibilities of such damages.

If you have any further questions, please contact Customer Support:

Address of the manufacturer.

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