VOLKTEK

Quick Installation Guide
8075-8GT-M12

1. Overview

Constructed with robust components and safeguarded by a durable IP67 casing, the 8075-8GT-M12 Series boasts an impressive operational temperature range from -40°C to 70°C, ensuring exceptional resistance to extreme vibration and shock.

The 8075-8GT-M12 Series is not only engineered for resilience in harsh industrial settings but also comes with an array of management functions. These features empower you to tailor communication parameters to your specific needs and provide straightforward methods to oversee network activity. Furthermore, the switch's design incorporates dual redundant power inputs, fortifying network reliability and significantly enhancing uptime.

2. Package Checklist

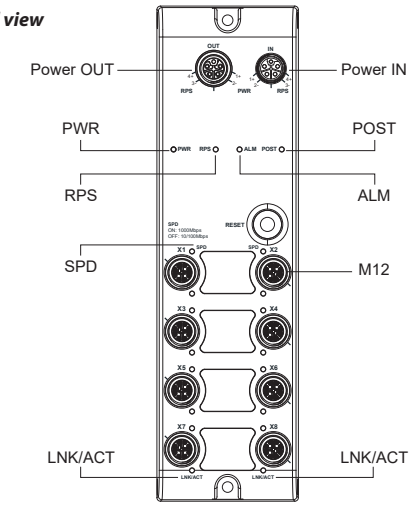
The switch is shipped with the following items*.
If any of these are missing or damaged, please contact your customer service representative for assistance.

- The Switch x 1
- DIN-Rail kit x 1
- Quick Installation Guide x 1

* 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



3. Mounting and Dismounting to Wall Mount

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

ATTENTION:
L'interrupteur est un dispositif ouvert qui doit être monté au mur dans l'armoire. La température ambiante ne doit pas dépasser la température de fonctionnement.

Mounting the Switch

Step 1. Prepare 2 screws for mounting the switch to a wall. (Recommend using M4x30L screws.)

Step 2. Based on the positions of 2 screw holes on the top and bottom sides of the switch to make 2 screw holes on a wall accordingly.

Step 3. Insert the screws through the screw holes on the switch and screw the switch into the wall.

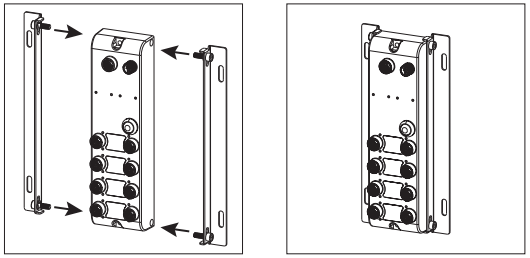
(Optional)

Step 4a. For added rigidity, attach the two accessory brackets to the side of the switch with the 4 provided screws and tighten them using an L-wrench.

Step 4b. Based on the positions of the screw holes on the accessory bracket sides, drill four corresponding screw holes on the wall. (Recommend using M5x10L screws.)

Dismounting the Switch

Loosen and remove the mounting screws from the wall, then carefully lift the switch away from the mounting surface.



Tighten the screws

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

ATTENTION:
Lors de l'installation, veillez à laisser suffisamment d'espace entre les appareils pour permettre le bon passage du câblage. Assurez-vous également de laisser suffisamment d'espace pour la circulation de l'air.

ATTENTION:
This product is intended to be mounted to a well-grounded mounting surface such as a metal panel.

ATTENTION:
Ce produit est conçu pour être monté sur une surface de montage correctement mise à la terre, telle qu'un panneau métallique.

4. Wiring Requirements

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.

AVERTISSEMENT:
Prenez des mesures de sécurité avant de brancher le câble d'alimentation. Coupez l'alimentation avant de connecter des modules ou des câbles. La tension d'alimentation correcte est indiquée sur l'étiquette du produit. Vérifiez la tension de votre source d'alimentation pour vous assurer que vous utilisez la tension correcte. N'utilisez PAS une tension supérieure à celle indiquée sur l'étiquette du produit. Calculez l'intensité maximale possible dans chaque fil d'alimentation et fil commun. Respectez tous les codes électriques qui imposent l'intensité maximale autorisée pour chaque section de fil. Si l'intensité dépasse la valeur nominale maximale, le câblage peut surchauffer et endommager gravement votre équipement.

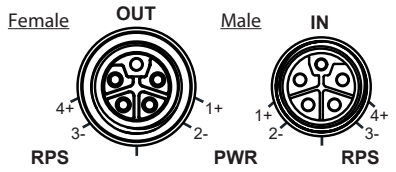
Please read and follow these guidelines:

- 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 and Output
(4-Pin L-Coded Male/Female Connector)

Top view of M12 power connector is shown in the figure below:

1: V+
2: V-
3: V-
4: V+



Caution:

- Use copper conductors only.
- Use cables rated for an operating temperature of at least **105°C**.
- Tighten the connector to a torque of **5 lb**.
- Use **16~18 AWG** conductors for the power connection.

MISE EN GARDE:
- Utiliser uniquement des conducteurs en cuivre.
- Utiliser des câbles dont la température de fonctionnement nominale est d'au moins **105 °C**.
- Serrer le connecteur à un couple de **5 lb**.
- Utiliser des conducteurs de calibre **16 à 18 AWG** pour le raccordement d'alimentation.

To insert the power wire and connect the specified voltage range, with a maximum DC current of 0.4 A for both input and output, to the power socket, follow the steps below:

1. Align the L-coded 4-pin male M12 power connector with the switch's power input socket.
2. Insert the connector fully into the socket.
3. Tighten the coupling nut by hand until secure, ensuring a waterproof seal.

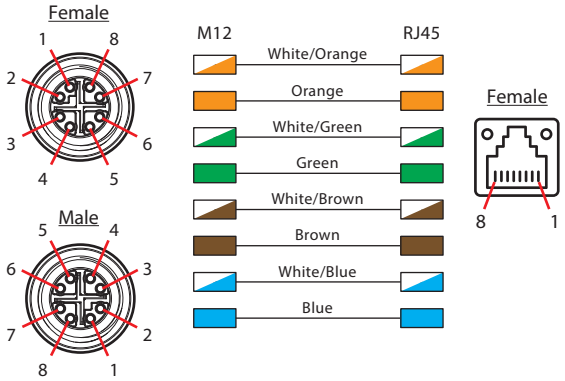
ATTENTION:
Please use a 24~48VDC power supply. The device shall be powered by a SELV circuit. The output voltage shall also be 24~48VDC.

ATTENTION:
Veuillez utiliser une alimentation de 24 à 48 VCC. L'appareil doit être alimenté par un circuit SELV. La tension de sortie doit également être de 24 à 48 VCC.

4.2 Cabling M12

Connect one end of an Ethernet cable into the Ethernet port of the switch and the other end to the attached networking device.

- Ports 1-8 supports 10/100/1000Mbps speed
- All the M12 ports on the switch support auto-negotiation and auto MDI/MDI-X to eliminate the need for crossover cabling.



To correctly identify Pin 1 on the M12 X-coded 8-pin connector, always refer to the position of the key notch (orientation notch) as shown in the diagram:

Align the connector so that the key notch matches the diagram's specified position (top-left or lower-right).

Pin 1 will be immediately adjacent to the key notch — either at the topmost pin above the notch or at the bottommost pin next to the notch, and clearly labeled as "1" in the pinout diagram.

Always ensure the connector orientation matches the provided diagram before wiring, to avoid connection errors.

5. LED Indicators

PWR (Green)	Illuminated	Primary power on
	Off	Primary power off or failure
RPS (Green)	Illuminated	Redundant power on
	Off	Redundant power off or failure
ALM (Red)	Illuminated	Alarm triggered for abnormal power status and anomalous features.
	Off	Normal operation
POST (Green)	Illuminated	Switch is ready or running
	Blinking	Self-testing the device when powering on
	Off	Switch is not ready
1000 (Green) (1~8th RJ45 port)	Illuminated	Link speed at 1000Mbps
	Off	Link speed at 10/100Mbps
LNK/ACT (Green) (1~8th RJ45 port)	Illuminated	Port link-up
	Blinking	Activity (receiving or transmitting data)
	Off	Port disconnected or link failed

6. Environmental limits

Operating Temperature	-40˚C~70˚C (-40°F~158°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:
Cet appareil est conforme à la partie 15 de la réglementation FCC. Son utilisation est soumise aux conditions suivantes :
1. Cet appareil ne doit pas provoquer d'interférences nuisibles.
2. Cet appareil doit tolérer toute interférence reçue, y compris celles pouvant entraîner un fonctionnement indésirable.

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

ATTENTION:
Si l'équipement est utilisé d'une manière non spécifiée par VOLKTEK, la protection offerte par l'équipement peut être altérée.

ATTENTION:
Please leave at least 5cm of space at the left and right of the unit for ventilation.

ATTENTION:
Veuillez laisser au moins 5 cm d'espace à gauche et à droite de l'appareil pour la ventilation.

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 user manual.

LIMITED WARRANTY

VOLKTEK Corporation warrants this product against defect in materials and workmanship for a period of FIVE (5) 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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