



AE-MS8400 Ethernet Switch

User Manual

Legal Information

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About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website (<https://www.hikvision.com/>).

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2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Symbol Conventions

The symbols that may be found in this document are defined as follows.




Symbol	Description
 Note	Provides additional information to emphasize or supplement important points of the main text.
 Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

TABLE OF CONTENTS

Chapter 1 Panel Introduction	1
1.1 Product Introduction.....	1
1.2 Features.....	1
1.3 Front Panel	1
Chapter 2 Installation	3
2.1 Preparation.....	3
2.2 Install Ethernet Switch	3
2.2.1 Power Connection	3
2.2.2 Ethernet Cable Clamp Installation (for RJ45 Type only).....	4
Chapter 3 Shutdown Delay Configuration	7

Chapter 1 Product Introduction

1.1 Product Introduction

This Ethernet Switch is to be used with mobile video recorder. It supports 8 IPCs powered by PoE. Well adapted to the on-board working condition, it is both easy to operate and highly reliable. It is powered by the on-board electricity and gets its power from the automobile battery.

1.2 Features

- Supports ACC function and shutdown delay
- Supports 8-ch 100M interfaces connection to peripheral
- All 100M interfaces support PoE
- Supports 1-ch 1000M interface connects to MVR
- Plug and play, no configuration required
- Aviation plugs provide high stability (M12 version only)

1.3 Front Panel

1.3.1 AE-MS8400 (M12)

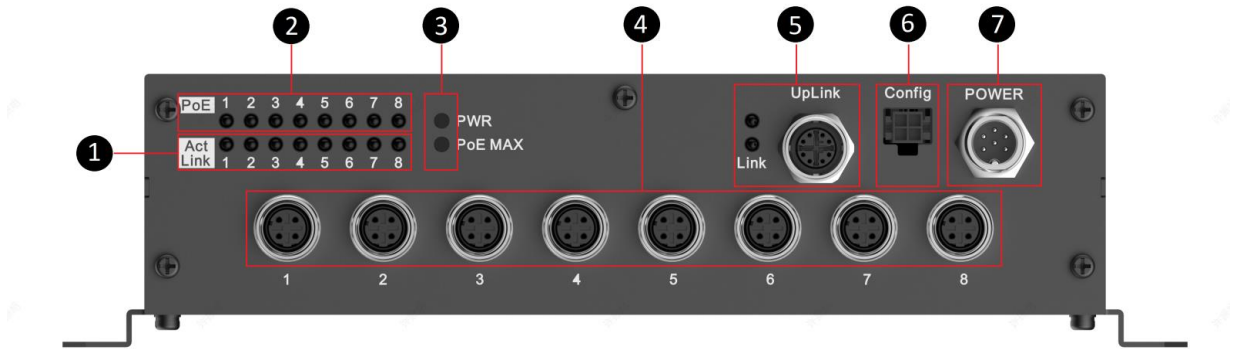


Figure 1-1 M12 Front Panel

Table 1-1 M12 Interface Description

Index	Description	Index	Description
1	Indicator peripheral connection status	5	10M/100/1000Mbps port for MVR connection
2	Indicator PoE function status	6	Debug interface, RS232
3	Indicator power and PoE full-load warning	7	Power supply interface
4	10M/100Mbps PoE port		

1.3.2 AE-MS8400 (RJ45)

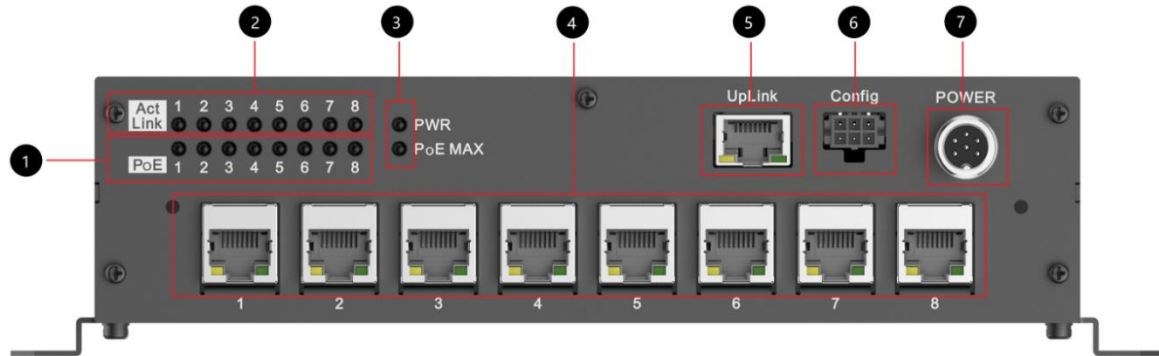


Figure 1-2 RJ45 Front Panel

Table 1-2 RJ45 Interface Description

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1	Indicator peripheral connection status	5	10M/100/1000Mbps port for MVR connection
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4	10M/100Mbps PoE port		

Chapter 2 Installation

2.1 Preparation

Basic Requirement

- The installation process needs to heed the local regulation on electricity and fire control.
- Angle requirement: place the Ethernet switch horizontally.

Note

Make sure that the Ethernet switch is dry, in particular when it is moved from a cooler place to hotter place which may lead to condensation. Wipe or blow dry the condensed water on the device, because water may lead to short-circuit.

- Working temperature: -25°C to +70°C (-4 °F to +140 °F)
- Working humidity: 10%~95%, non-condensing

Installation Environment

- Make sure that installation position has enough space for Ethernet switch and its parts.
- Make sure that installation position is well ventilated and clean.
- Make sure that installation position is away from fluid of any kind.

Installation Tools

Prepare tools for installation, such as automobile fuse, Ethernet cable, power cable and screws.

2.2 Install Ethernet Switch

2.2.1 Power Connection

The Ethernet switch starts to work as the automobile ignites and its shut down will be delayed after the engine stops. That is, the on and off of the Ethernet switch depends on the ignition signal of the automobile.

Note

Ask the automobile manufacturer for the correct way of connection for start switch, in case incorrect connection damages the Ethernet switch.

- Basics of the connection: connect the working power interface of the Ethernet switch to the automobile batteries and the ACC to the automobile ignition switch.

Step 1 Connect the **DC IN +** of the device to the positive pole of automobile batteries, jumping over the switch of normal automobile power.

Step 2 Connect the **DC IN -** of the device to the negative pole of automobile batteries.

Step 3 Connect the **ACC** of the device to the automobile ignition switch.

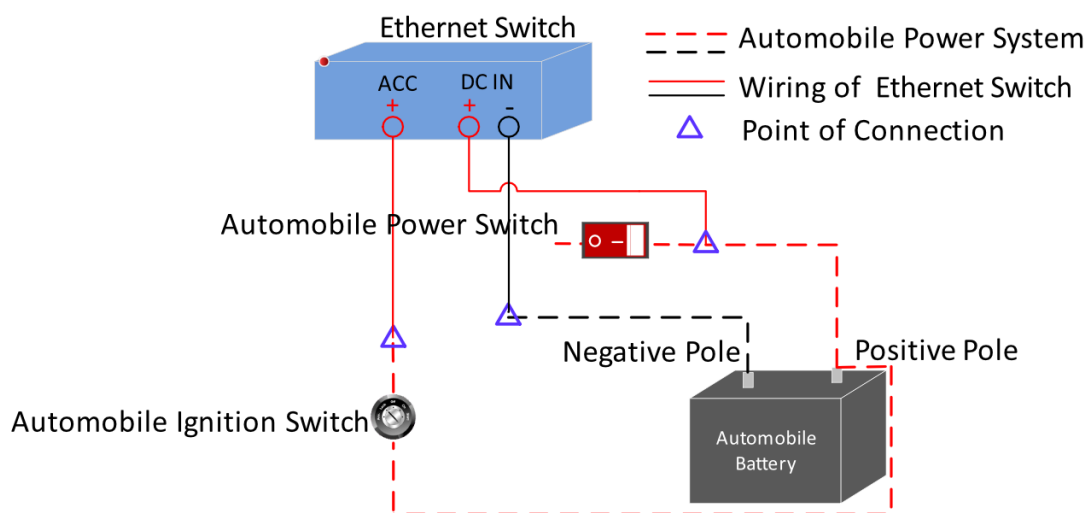


Figure 2-1 Power Connection

Note

- The automobile ignition switch, also called car key, controls the startup and shutdown of your automobile. Most of automobiles adopt positive pole ignition switch currently.
- The normal automobile power refers to the main power of the automobile power supply system. After the automobile is off, the normal automobile power still provides direct-current source for the other devices inside and generally a main switch is used to turn on/off it.

2.2.2 Ethernet Cable Clamp Installation (for RJ45 Type only)

The cable clamp fixes the cable in moving environment, avoids the loosening of the Ethernet interface and keeps the cable placement in order.

Step 1 Unfasten the screw on the middle.

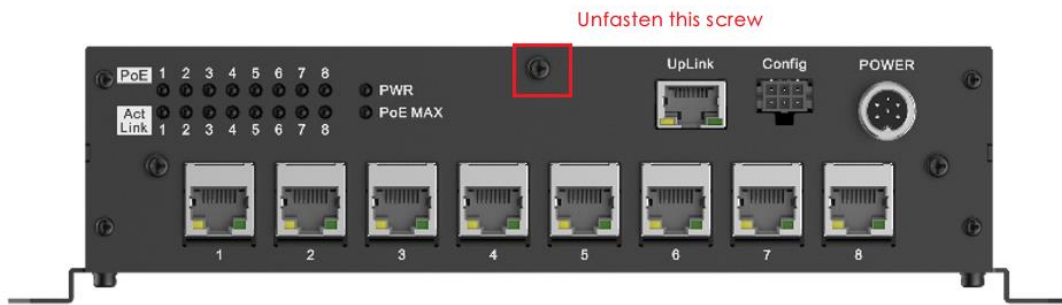


Figure 2-2 Unfasten the Middle Screw

Step 2 Install the cable clamps on the bracket and open them with their plectrum.



Figure 2-3 Install the Cable Clamp Bracket

Step 3 Plug in The Ethernet Cable.



Figure 2-4 Plug in The Ethernet Cable

Step 4 Close the clamp.



Figure 2-5 Plug in The Ethernet Cable

Step 5 To plug out the Ethernet cable, first open the clamp with its plectrum.

Chapter 3 Shutdown Delay Configuration

To configure shutdown delay, follow the following steps.

Step 1 Connect serial port cable to the “Config” interface of the front panel.

Step 2 Power on the Ethernet Switch and open the serial port software such as “SecureCRT”. Configure the host by putting in the alias, connection method, port number, baud rate. Normally, the baud rate is 115200.

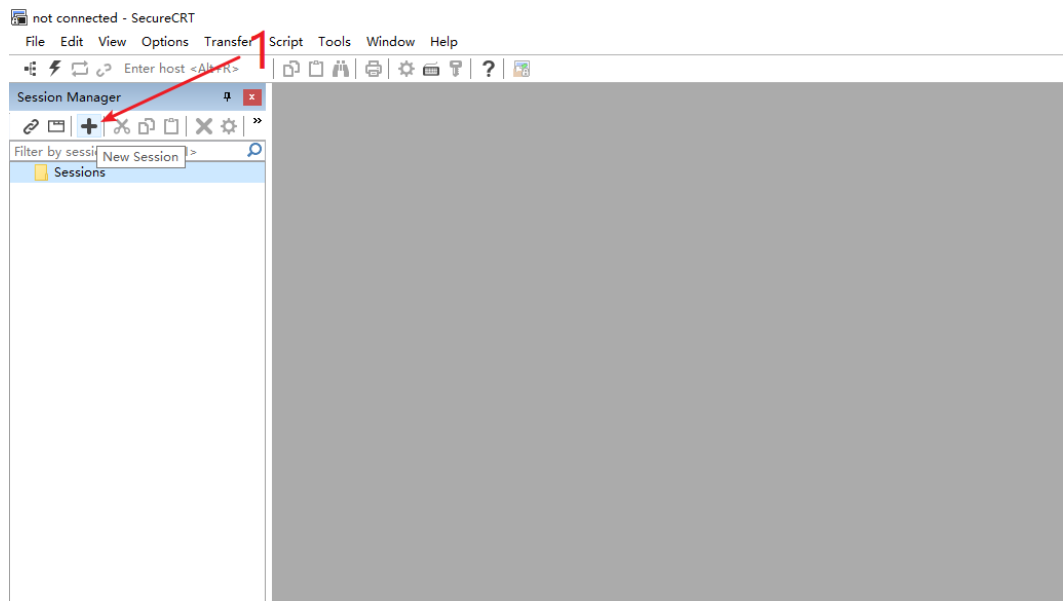


Figure 3-1 Open a New Session

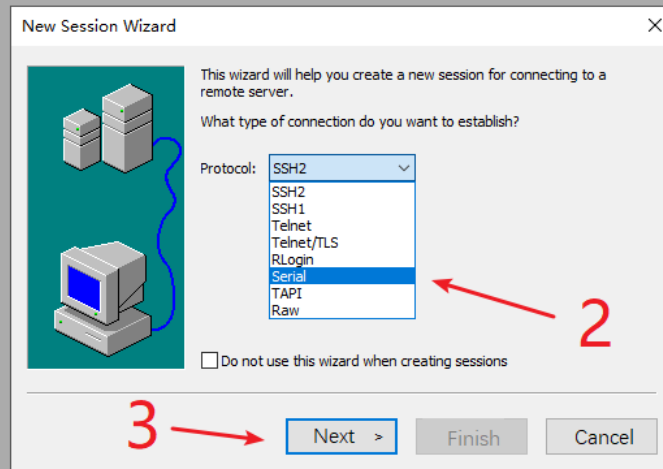


Figure 3-2 Select the Protocol as Serial

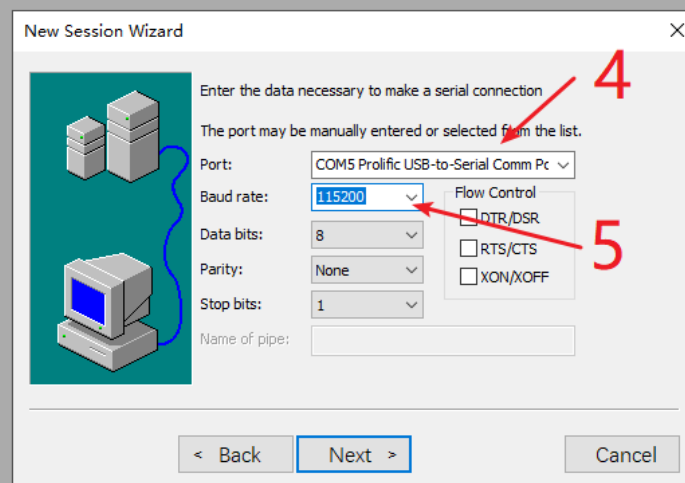


Figure 3-3 Configure the Serial Parameters

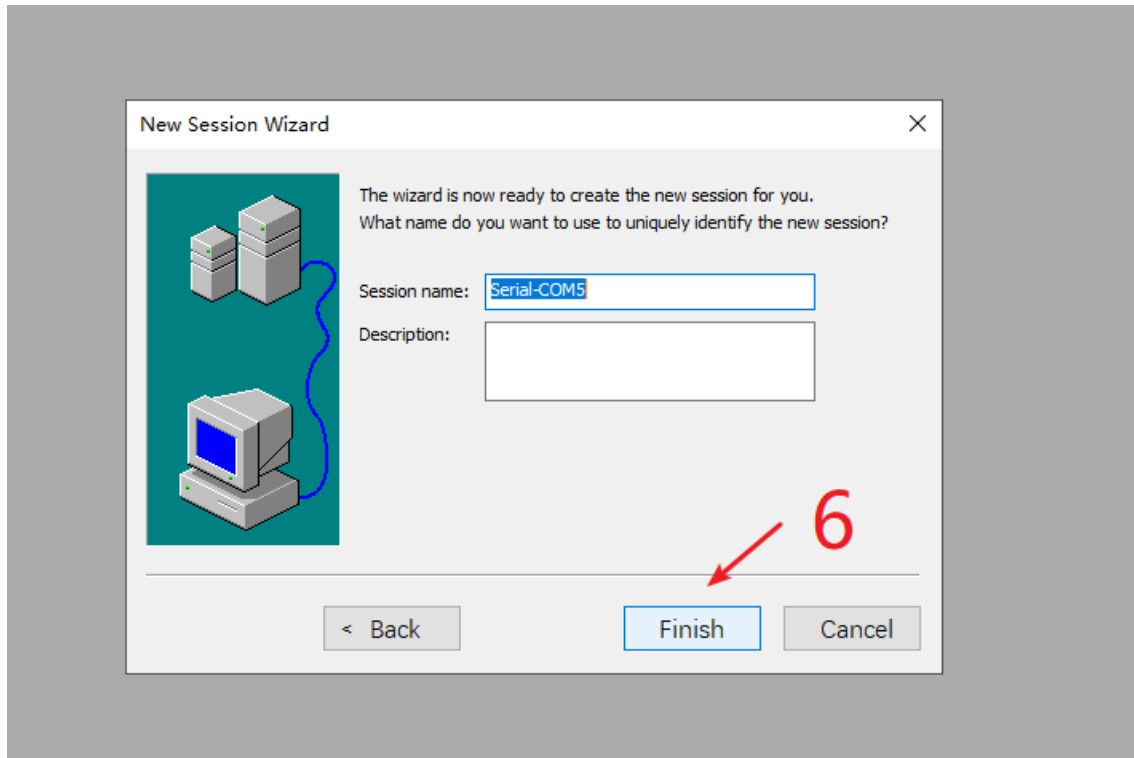


Figure 3-4 Finish Configuration

Step 3 Input time of shutdown delay, for instance, “set_delaytime 5” for 5 minutes shutdown delay.
The maximal shutdown delay vale is 240 minutes, that is, 4 hours.

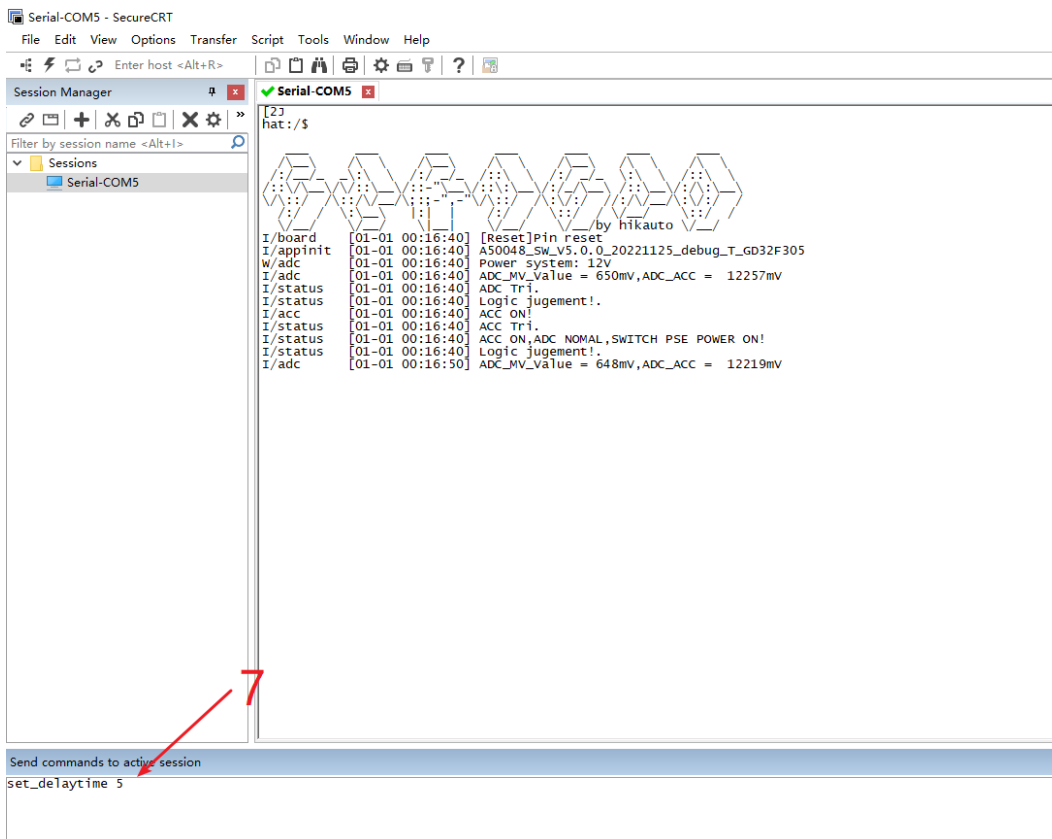


Figure 3-5 Input the command

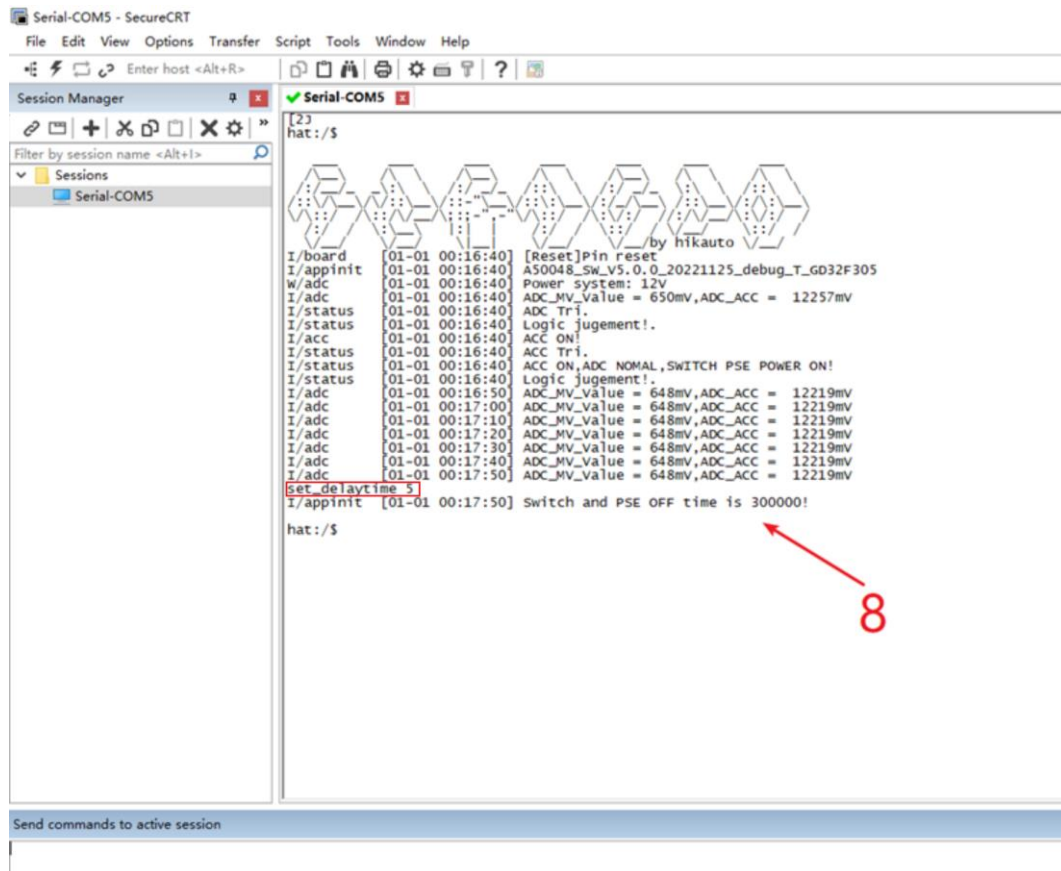


Figure 3-6 Finish configuration

Step 4 The return message is “Switch and PSE OFF time is 300000!”, meaning 300, 000 milliseconds (5 minutes).



See Far, Go Further