Re-flash the MAC address of 100M Ethernet port on ED-CM4IND

EDA Technology Co., LTD

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Contact Us

Thank you very much for purchasing and using our products, and we will serve you wholeheartedly.

As one of the global design partners of Raspberry Pi, we are committed to providing hardware solutions for IOT, industrial control, automation, green energy and artificial intelligence based on Raspberry Pi technology platform.

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Foreword

Reader Scope

This manual is applicable to the following readers:

◆ Mechanical Engineer

◆ Electrical Engineer

◆ Software Engineer

◆ System Engineer

Related Agreement

Symbolic Convention

Symbolic	Instruction
⚠	Prompt symbols, indicating important features or operations.
⚠	Notice symbols, which may cause personal injury, system damage, or signal interruption/loss.
⚡	Warning symbols, which may cause great harm to people.

Safety Instructions

◆ This product should be used in an environment that meets the requirements of design specifications, otherwise it may cause failure, and functional abnormality or component damage caused by non-compliance with relevant regulations are not within the product quality assurance scope.

◆ Our company will not bear any legal responsibility for personal safety accidents and property losses caused by illegal operation of products.

◆ Please do not modify the equipment without permission, which may cause equipment failure.

◆ When installing equipment, it is necessary to fix the equipment to prevent it from falling.

◆ If the equipment is equipped with an antenna, please keep a distance of at least 20cm from the equipment during use.

◆ Do not use liquid cleaning equipment, and keep away from liquids and flammable materials.

◆ This product is only supported for indoor use.

Content

1 Problem Description

This chapter introduces the phenomenon of MAC address problem and the involved product models.

✓ Description

✓ Involved Product

1.1 Description

If you purchased ED-CM4IND between June 2024 and July 2024, there may be multiple ED-CM4IND products with eth1 interfaces that all have a MAC of 60:15:92:2e:03:84, this guide is used to fix the same MAC address issue.

```
pi@raspberrypi:~ $ ifconfig eth1
eth1: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
        ether 60:15:92:2e:03:84  txqueuelen 1000  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

1.2 Involved Product

The products involved in the MAC address issue include ED-CM4IND.

2 Solution

For the problem, we provide a script named **reflash_mac.sh** to fix it.

    ✓   Executing reflash_mac.sh

2.1 Executing reflash_mac.sh   2-2

Executing the following command:

curl -s http://96.126.98.62:9000/common/reflash_mac.sh | sudo bash -s "6015922e038d"

If you see the following message, the execution of the script was successful.

```
pi@raspberrypi:~ $ curl -s http://96.126.98.62:9000/common/reflash_mac.sh | sudo bash -s "6015922e038d"
Mac address(6015922e038d) flashed successfully!
Please reboot device!
```

The new MAC address will be displayed after reboot.

```
pi@raspberrypi:~ $ ifconfig eth1
eth1: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
        ether 60:15:92:2e:03:8d  txqueuelen 1000  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```