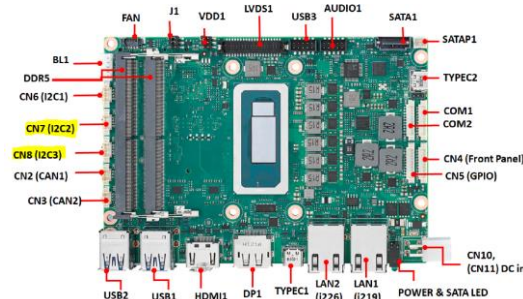
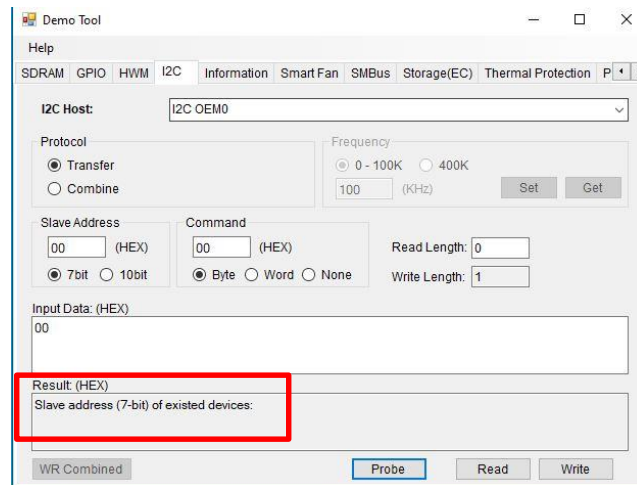
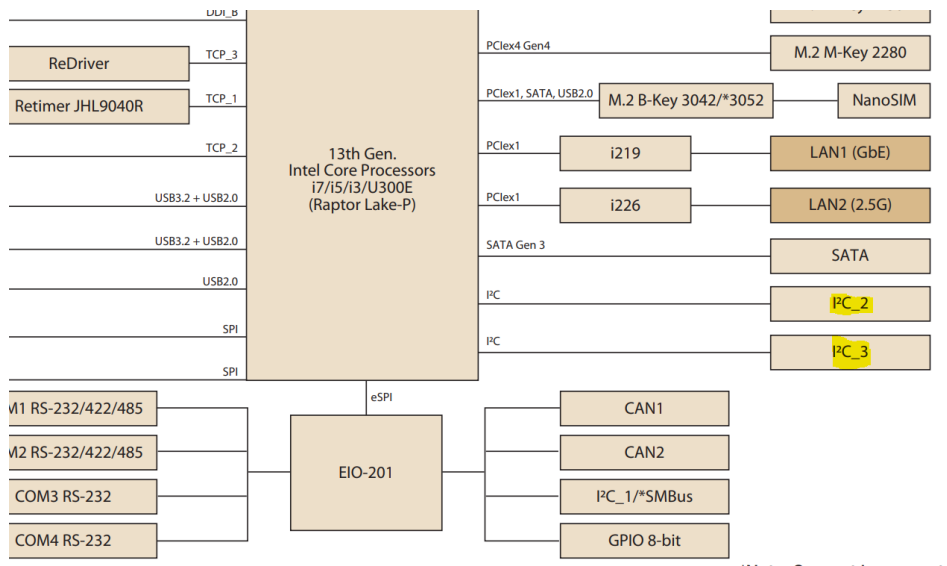


How to enable the I2C(I2C_2、I2C_3) with SUSI API



Preface

Why are the I2C_2 and I2C_3 not found after I installed the standard Windows SUSI API?



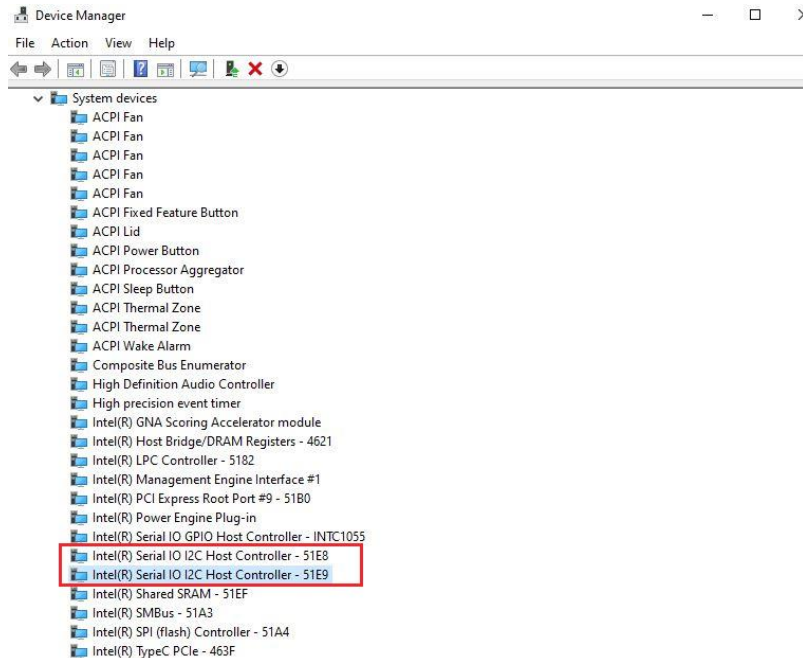
Three steps to confirm

- Make sure the Serial IO driver package is installed
- The setting of the I2C in the device manager
- The setting of the SUSI4 Driver in the device manager

Make sure the Serial IO driver package is installed

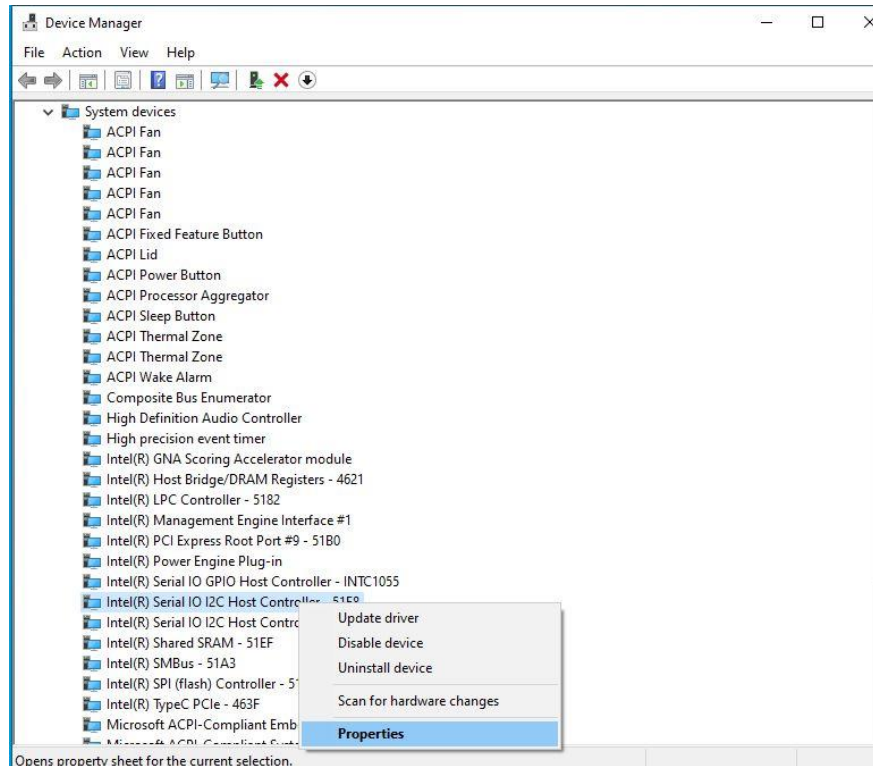
Step1. Download the driver package and SUSI API from the official website, and install them completely.

Step2. Check Device Manager /System devices



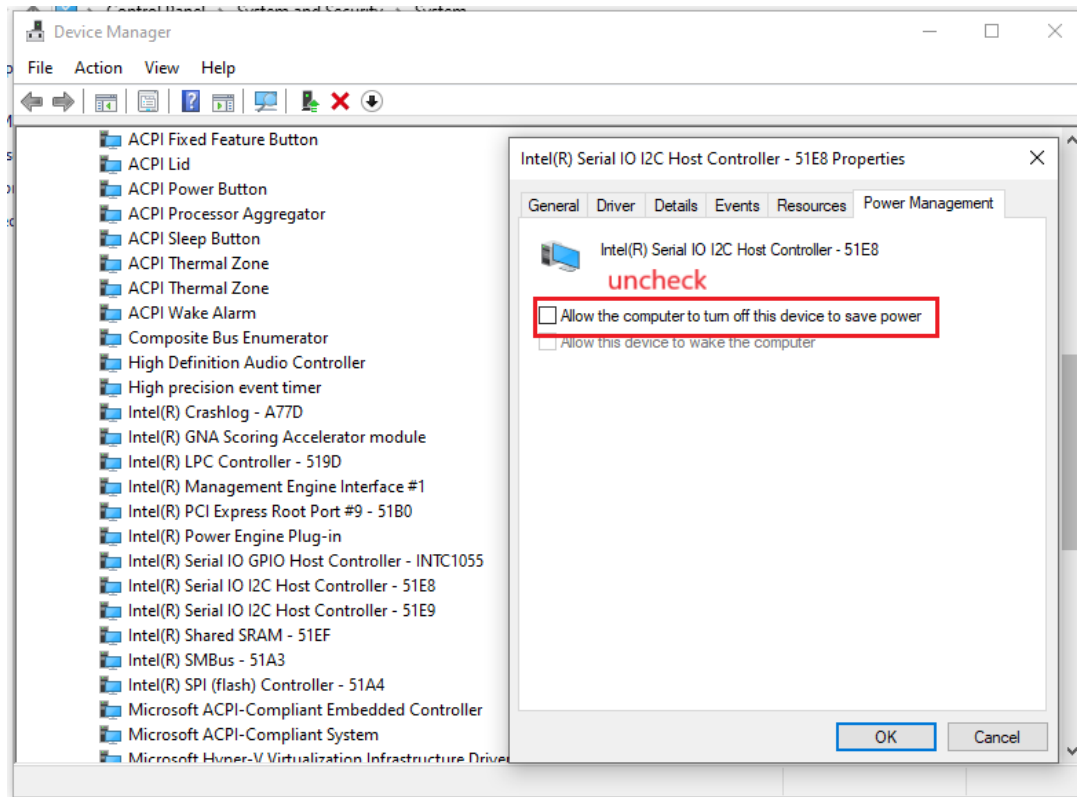
The setting of the I2C in the device manager

Select the Intel® Serial IO I2C Host Controller, and right click to select “Properties”



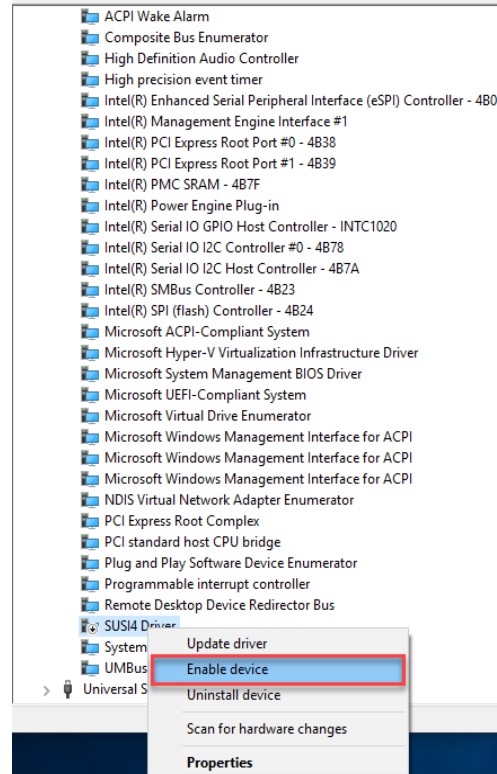
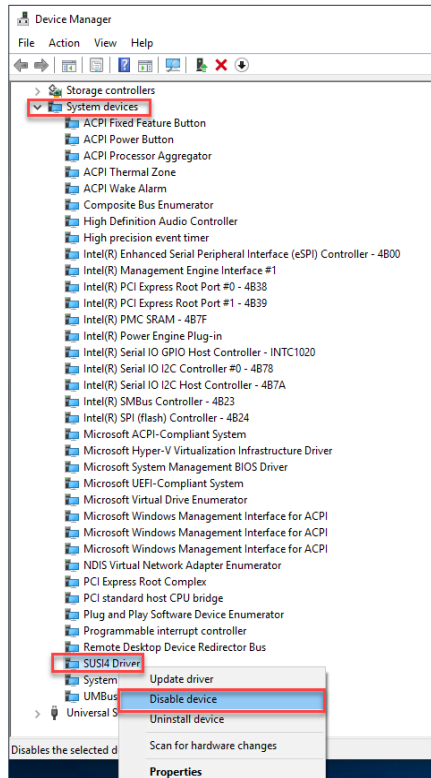
The setting of the I2C in the device manager

On the Power Management page, uncheck the setting below

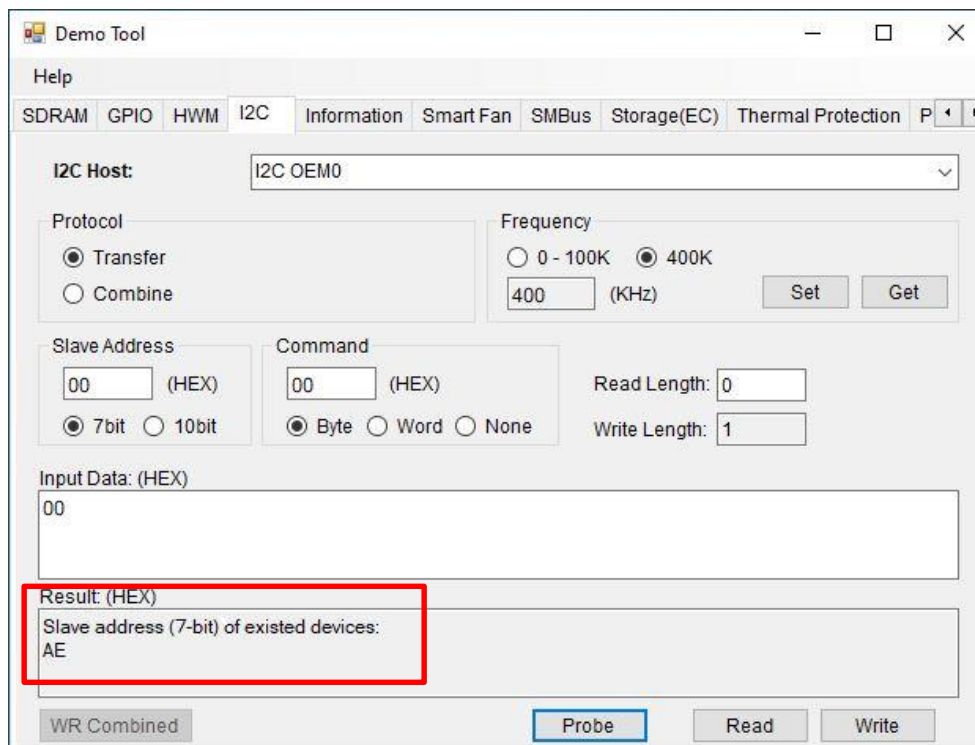


The setting of the SUSI4 Driver in the device manager

Disable the SUSI4 Driver and then Enable device



After completing the three steps, we can find the I2C devices.



The screenshot shows the 'Demo Tool' application window with the 'I2C' tab selected. The 'I2C Host' is set to 'I2C OEM0'. The 'Protocol' is set to 'Transfer'. The 'Frequency' is set to '400K' (400 KHz). The 'Slave Address' is '00' (HEX) and '7bit'. The 'Command' is '00' (HEX) and 'Byte'. The 'Read Length' is '0' and the 'Write Length' is '1'. The 'Input Data: (HEX)' field contains '00'. The 'Result: (HEX)' field is highlighted with a red box and contains the text 'Slave address (7-bit) of existed devices: AE'. The 'Probe' button is highlighted with a blue box.

Demo Tool

Help

SDRAM GPIO HWM I2C Information Smart Fan SMBus Storage(EC) Thermal Protection P

I2C Host: I2C OEM0

Protocol

☒ Transfer

☐ Combine

Frequency

☐ 0 - 100K ☒ 400K

400 (KHz) Set Get

Slave Address

00 (HEX)

☒ 7bit ☐ 10bit

Command

00 (HEX)

☒ Byte ☐ Word ☐ None

Read Length: 0

Write Length: 1

Input Data: (HEX)

00

Result: (HEX)

Slave address (7-bit) of existed devices: AE

WR Combined Probe Read Write

Note:

Once the system reboots, the settings of I2C and SUSI4 Driver have to be done again because of the behavior of the windows system.

If your application required frequent rebooting and the I2C_2 and I2C_3 functions, please contact your regional technical support or sales for a customized BIOS to avoid the steps.