

I2C

1.Operation Summary

Depending on the command (write or read) input in the Tera Term, following operation will be performed;

In case of the write command: an input character will be stored in the I2C EEPROM

In case of the read command: read the data stored in the I2C EEPROM, and display it in the Tera Term

2.Board setting

Connect the terminal on the evaluation board as follows

CN5 1-2 3-4 5-6 7-8

3.Basic Operation

The "command >" prompt will be displayed in the Tera Term. Then, input a command (write or read) in the following write or read command format.

In case of the write command: an input character will be stored in the I2C EEPROM. (address: 0x0)

In case of the read command: read the data stored in the I2C EEPROM (address: 0x0), and display it in the Tera Term.

• command format :

write command

write_ X

X:An Any character

read command

read

4.Setting

TMPM4G9

UART Setting

TXD	:PE3
RXD	:PE2
Baud Rate	:115200(bps)
Data	:8(bit)
Parity	: None
Stop Bit	:1(bit)
Flow Control	: None

- I2C EEPROM : 24FC256-I/SN
- I2C Channel 3 : SCL PJ7、 SDA PJ6

5.Output Example

command > write A
write data > A

write command
Store 'A' that is 1byte data to I2C

command > read
read data > A

read command
Read data from I2C EEPROM (0x000000) and