

Memory to Peripheral(TSPI)

1.Operation Summary

Data received by UART from the terminal software on the PC is transferred to the memory.

It sends the received data from memory to TSPI loopback.

Data received by TSPI loopback is transferred to memory and output from memory to terminal software on PC via UART.

This sample program transmits data from memory to TSPI via HDMAC.

2.Board setting

Connect the terminal on the evaluation board as follows

CN5 1-2 3-4 CN18 35-37

3. Setting

HDMAC ch : HDMAC 0CH

TSPI ch : TSPI CH2

TSPI port : TX Port A4

: RX Port A5

Connect PA4 and PA5 for loopback.

UART ch : UART CH0

UART port : TX Port E2

: RX Port E3

Serial Port Setting

Baud Rate : 115200(bps)

Data : 8(bit)

Parity : none

Stop Bit : 1(bit)

Flow Cntrol : none

4. Basic Operation

1. Memory to TSPI

① Initial Display

Request user input by the "Input = " prompt.

Tera Term display example

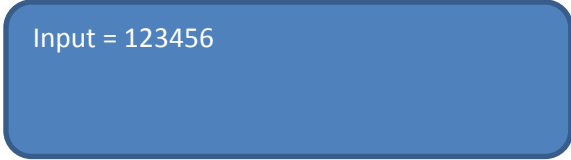
A screenshot of a Tera Term terminal window. The text "Input =" is displayed in a blue monospaced font on a black background. The text is positioned at the top left of the terminal area.

Input =

② Character Input

User will input characters and then press 'Enter' key.

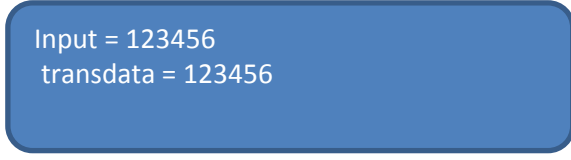
Tera Term display example

A screenshot of a Tera Term terminal window. The text "Input = 123456" is displayed in a blue monospaced font on a black background. The text is positioned at the top left of the terminal area.

Input = 123456

③ Display the transferred data

DMA transfers the input character string to the data register of TSPI, performs TSPI transmission / reception (loopback), and the received character data is displayed following transdata = display.

A screenshot of a Tera Term terminal window. The text "Input = 123456" and "transdata = 123456" is displayed in a blue monospaced font on a black background. The text is positioned at the top left of the terminal area.

Input = 123456
transdata = 123456