

Echo Back (DMA)

1. Operation Summary

Echo back outputs of the data from input on the terminal software.

2.Board setting

Connect the terminal on the evaluation board as follows

CN4 5-CN5 1 CN4 6- CN5 3

3. Setting

FUART Port for Use : TX Port G4(Connect USB_UT_TX)
 : RX Port G5(Connect USB_UT_RX)

Serial Port Setting

Baud Rate : 115200(bps)
Data : 8(bit)
Parity : none
Stop Bit : 1(bit)
Flow Cntrol : none

Maximum Number of Characters : 32(byte) including newline character(s). The number of characters should be less than
the maximum number

DMAC setting

Reception
DMAC ch : 17(FUART ch0 reception DMA request)
The addressing mode : Increment mode
The transfer mode : Unit transfer mode
DMA transfer type : Fixed -> Region
Transmisson
DMAC ch : 15(FUART ch0 transmission DMA request)
The addressing mode : Increment mode
The transfer mode : Unit transfer mode
DMA transfer type : Region -> Fixed

4. Basic Operation

① Initial Display

Request user input by the "Input = " prompt.

Tera Term display example

```
Input =
```

② Character Input

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

Tera Term display example

```
Input = 123456
```

③ Echo Back Output

Display " Echo = ", followed by the display of the input characters.

```
Input = 123456  
Echo = 123456
```

5 Input Characters Over the Maximum Number

Display " Input Error !! "

```
Input = 01234567890123456789012345678901  
Input Error !!
```