

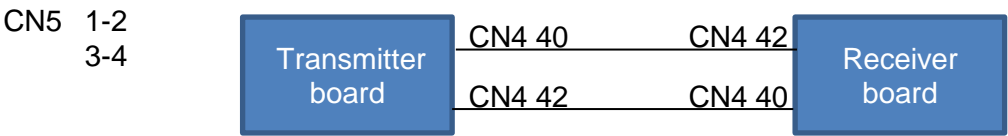
UART_HALF_CLOCK

1. Operation Outline

This sample program uses two evaluation boards. One board is receiver board for UART_HALF_CLOCK_TRANS sample program, and the other is transmitter board for UART_HALF_CLOCK_RECEIVE sample program. These sample programs need to write in advance, respectively. UART_HALF_CLOCK_TRANS sample program transmits the data from the terminal emulator using Half Clock Mode. UART_HALF_CLOCK_RECEIVE sample program displays the received data on the terminal emulator.

2. Board setting

Connect the terminal on the evaluation board as follows.



3. Each Setting

| | | |
|-------------|----------------|--------------------------------------|
| <u>UART</u> | : UT4RXD(PM0) | Data reception in Half Clock Mode |
| | : UT4TXDA(PM1) | Data transmission in Half Clock Mode |
| | : UT0RXD(PE2) | Used for the terminal emulator |
| | : UT0TXDA(PE3) | Used for the terminal emulator |

Serial port setting

| | |
|--------------|---------------|
| Baud rate | : 115200(bps) |
| Data | : 8(bit) |
| Parity | : None |
| Stop | : 1(bit) |
| Flow control | : None |

4. Basic Operation

1. Start UART_HALF_CLOCK_TRANS sample program and UART_HALF_CLOCK_RECEIVE.

2. Transmitter board:

After "TRANS DATA >" on the terminal emulator view, enter some character string(within 32 bytes including line feed code).

The input character string is transmitted to the Receiver board using Half Clock Mode.

2. Receiver board:

When any character string is received, it is displayed on the terminal emulator.

Display example of Transmitter board:

```
UART HALF CLOCK TEST
```

```
-----  
| UART TRANS |  
-----
```

```
TRANS DATA > 1234567889012345678901234567890
```

Display example of Receiver board:

```
UART HALF CLOCK TEST
```

```
-----  
| UART RECEIVE |  
-----
```

```
RECEIVE DATA > 1234567889012345678901234567890
```

4. Note

Nothing.