

UART

1. Operation Outline

Data input from the terminal software in a PC are displayed as the echo back data.

2. Each Setting

<u>UART</u>	: TXD2 (Port93) : RXD2 (Port94)	
<u>Transmitted stop bit length</u>	: default = 1 bit	main.c: Changing the value of "#define UART_TRANS_STOP_BIT_LEN" allows changing the transmitted stop bit length.
<u>Parity addition</u>	: default = no parity	main.c: Changing the value of "#define UART_PARITY" allows changing the parity addition setting.
<u>Output selection of TXD pin</u>	: UART output (fixed)	
<u>Transfer base clock selection</u>	: default = gear clock	main.c: Changing the value of "#define UART_CLOCK" allows changing the transfer base clock.
<u>RT clock count selection</u>	: default = 17/17 clocks	main.c: Changing the value of "#define UART_RT_CLOCK" allows changing the RT clock count.
<u>Noise rejection time selection of RXD input</u>	: default = no noise rejection	main.c: Changing the value of "#define UART_NOISE_CANCEL_TIME" allows changing the noise rejection time of RXD input.
<u>Received stop bit length</u>	: default = 1 bit	main.c: Changing the value of "#define UART_RECEIVE_STOP_BIT_LEN" allows changing the received stop bit length.
<u>Baud rate</u>	: default = 115200 (bps)	main.c: Changing the value of "#define UART_BAUD_RATE" allows changing the baud rate. *It is calculated based on the transfer base clock.
<u>Serial port setting</u>	Baud rate : 115200 (bps) Data : 8 (bit) Parity : None Stop : 1 (bit) Flow control : None	

3. Basic Operation

The character strings input from terminal software are received, and the received character strings are displayed on the terminal software.

Display example of terminal software

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UART Sample Program
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PC -> MCU(RX): abcdef
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4. Note

None.