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Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: <http://www.renesas.com>

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MESC TECHNICAL NEWS

No. M16C-30-9907

M30201 Group

Precautions for way of initialize to UART mode

1. Related devices

M30201 group

2. Precautions

When using clock asynchronous serial I/O (UART) mode, there is a possibility of a output "L" from TxDi pin when setting the UARTi transmit/receive mode register. This may cause error which will prevent communication.

3. Recommendation

If you change UARTi transmit/receive mode register (UiMR), please set like following.

- (1) Set "00h" to UARTi transmit/receive mode register (UiMR).
- (2) Set UARTi bit rate generator (UiBRG).
- (3) Enable ("1") Transmit enable bit (TE_UiC1).
- (4) Set Transmission completed ("1") to UARTi transmit interrupt cause select bit (UiIRS).
- (5) Set "00h" to UARTi transmit interrupt control register (SiTIC).
- (6) Set "FFh" to UARTi transmit buffer register (UiTB).
- (7) Wait for transmit interrupt request (Wait for initialize complete).
- (8) Set UARTi transmit/receive mode register (UiMR).

4. Sample program

```
mov.b #00h, UiMR
mov.b #BAUDRATE, UiBRG
bset TE_UiC1
best UiIRS
mov.b #00h, SiTIC
mov.b #0FFh, UiTB
?: btst IR_SiTIC
jnc ?-
mov.b #SIO_MODE, UiMR
```