

Active Errata List

- During UART Reception, Clearing REN May Generate Unexpected IT
- Timer 2 – Baud Rate Generator – Long Start Time
- Stretch MOVX Does Not Work
- Timer0/1 – Extra Interrupt

Errata History

Lot Number	Errata List
All	1, 2, 3, 4

Errata Descriptions

1. During UART Reception, Clearing REN May Generate Unexpected IT

During UART reception, if the REN bit is cleared between start bit detection and the end of reception, the UART will not discard the data (RI is set).

Workaround

Test REN at the beginning of Interrupt routine just after CLR RI, and run the Interrupt routine code only if REN is set.

2. Timer 2 – Baud Rate Generator – Long Start Time

When Timer 2 is used as a baud rate generator, TH2 is not loaded with RCAP2H at the beginning, then UART is not operational before 10,000 machine cycles.

Workaround

Add the initialization of TH2 and TL2 in the initialization of Timer 2.

3. Stretch MOVX Does Not Work

When setting M0 bit in AUXR SFR (08Eh), the \overline{RD} or \overline{WR} pulse on a MOVX instruction on external memory is not 30 XTAL length but always standard 6 XTAL length. Thus slow external peripherals mapping in the XDATA space could not work properly.

Workaround

None.

4. Timer0/1 – Extra Interrupt

When Timer0 is in X1 mode and Timer1 in X2 mode and vice versa, extra interrupt may randomly occur for Timer0 or Timer1.

Workaround

Use the same mode for the two timers..



80C51 MCUs

AT89C51RB2

AT89C51RC2

Errata Sheet





Active UART Bootloader Errata List

- API program Data Byte - Incorrect Return Value
- API program Data Page - Incorrect Return Value

UART Bootloader Errata History

Version Number	Errata List
0.1 (1.0.1 displayed by FLIP)	1,2

UART Bootloader Errata Description

1. API program Data Byte - Incorrect Return Value

The PROGRAM DATA BYTE API returns the '0xXX' instead of 0x00 in ACC, but the programmig operation is sucessfully completed.

2. API program Data Page- Incorrect Return Value

The PROGRAM DATA PAGE API returns the '0xXX' instead of 0x00 in ACC, but the programmig operation is sucessfully completed.



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