

Active Errata List

- During UART Reception, Clearing REN may Generate Unexpected IT
- 32 kHz Oscillator Needs External Feedback Resistor
- Timer 2 – Baud Rate Generator – Long Start Time
- Stretch MOVX Does Not Work

Errata History

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

Errata Description

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

During UART reception, if the REN bit is cleared between a 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. 32 kHz Oscillator Needs External Feedback Resistor**

Internal feedback resistor is not connected, to start up, the 32 kHz Oscillator needs an external resistor.

Workaround

Connect XTALB1 and XTALB2 between a 2 M Ω resistor.
- 3. Timer 2 – Baud Rate Generator – Long Start Time**

When Timer 2 is used as baud rate generator, TH2 is not loaded with RCAP2H at the beginning, then UART is not operational before 10000 machine cycles.

Workaround

Add the initialisation of TH2 and TL2 in the initialisation of Timer 2.
- 4. Stretch MOVX Does not Work**

When setting M0 bit in AUXR sfr (08Eh), the RD# or WR # pulse on a MOVX instruction on external memory is not 30 XTAL length but always standart 6 XTAL length. Thus slow external peripherals mapped in the XDATA space could not work properly.

Workaround

None.



80C51 MCUs

AT89C51IC2

Errata Sheet

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Atmel Headquarters

Corporate Headquarters

2325 Orchard Parkway
San Jose, CA 95131
TEL 1(408) 441-0311
FAX 1(408) 487-2600

Europe

Atmel Sarl
Route des Arsenaux 41
Case Postale 80
CH-1705 Fribourg
Switzerland
TEL (41) 26-426-5555
FAX (41) 26-426-5500

Asia

Room 1219
Chinachem Golden Plaza
77 Mody Road Tsimhatsui
East Kowloon
Hong Kong
TEL (852) 2721-9778
FAX (852) 2722-1369

Japan

9F, Tonetsu Shinkawa Bldg.
1-24-8 Shinkawa
Chuo-ku, Tokyo 104-0033
Japan
TEL (81) 3-3523-3551
FAX (81) 3-3523-7581

Atmel Operations

Memory

2325 Orchard Parkway
San Jose, CA 95131
TEL 1(408) 441-0311
FAX 1(408) 436-4314

Microcontrollers

2325 Orchard Parkway
San Jose, CA 95131
TEL 1(408) 441-0311
FAX 1(408) 436-4314

La Chantrerie
BP 70602
44306 Nantes Cedex 3, France
TEL (33) 2-40-18-18-18
FAX (33) 2-40-18-19-60

ASIC/ASSP/Smart Cards

Zone Industrielle
13106 Rousset Cedex, France
TEL (33) 4-42-53-60-00
FAX (33) 4-42-53-60-01

1150 East Cheyenne Mtn. Blvd.
Colorado Springs, CO 80906
TEL 1(719) 576-3300
FAX 1(719) 540-1759

Scottish Enterprise Technology Park
Maxwell Building
East Kilbride G75 0QR, Scotland
TEL (44) 1355-803-000
FAX (44) 1355-242-743

RF/Automotive

Theresienstrasse 2
Postfach 3535
74025 Heilbronn, Germany
TEL (49) 71-31-67-0
FAX (49) 71-31-67-2340

1150 East Cheyenne Mtn. Blvd.
Colorado Springs, CO 80906
TEL 1(719) 576-3300
FAX 1(719) 540-1759

Biometrics/Imaging/Hi-Rel MPU/ High Speed Converters/RF Data- com

Avenue de Rochepleine
BP 123
38521 Saint-Egreve Cedex, France
TEL (33) 4-76-58-30-00
FAX (33) 4-76-58-34-80

e-mail

literature@atmel.com

Web Site

<http://www.atmel.com>

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