

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 sucess-fully 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 sucess-fully completed.



Atmel Corporation

2325 Orchard Parkway
San Jose, CA 95131, USA
Tel: 1(408) 441-0311
Fax: 1(408) 487-2600

Regional Headquarters

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 Tsimshatsui
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, USA
Tel: 1(408) 441-0311
Fax: 1(408) 436-4314

Microcontrollers

2325 Orchard Parkway
San Jose, CA 95131, USA
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, USA
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, USA
Tel: 1(719) 576-3300
Fax: 1(719) 540-1759

Biometrics/Imaging/Hi-Rel MPU/ High Speed Converters/RF Datacom

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

Literature Requests

www.atmel.com/literature

Disclaimer: Atmel Corporation makes no warranty for the use of its products, other than those expressly contained in the Company's standard warranty which is detailed in Atmel's Terms and Conditions located on the Company's web site. The Company assumes no responsibility for any errors which may appear in this document, reserves the right to change devices or specifications detailed herein at any time without notice, and does not make any commitment to update the information contained herein. No licenses to patents or other intellectual property of Atmel are granted by the Company in connection with the sale of Atmel products, expressly or by implication. Atmel's products are not authorized for use as critical components in life support devices or systems.

© Atmel Corporation 2004. All rights reserved. Atmel® and combinations thereof are the registered trademarks of Atmel Corporation or its subsidiaries. Other terms and product names may be the trademarks of others.



Printed on recycled paper.