## **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
- Strech 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 $\Omega$  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. Strech 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 lenght but always standart 6 XTAL lenght. Thus slow external peripherals mapped in the XDATA space could not work properly.

### Workaround

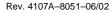
None.



# **80C51 MCUs**

## **AT89C51IC2**

# **Errata Sheet**







## **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

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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 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

#### e-mail

literature@atmel.com

#### Web Site

http://www.atmel.com

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