

STM8L001J3, STM8L101xx Errata sheet

STM8L001J3, STM8L101xx device limitations

Silicon identification

This errata sheet applies to revision "B", "Z" or "Y" of the STMicroelectronics STM8L001J3 and STM8L101xx devices.

Table 1. Device identification

Part number	Revision code marked on device
STM8L001J3	
STM8L101F3 STM8L101G3 STM8L101K3 STM8L101F2 STM8L101G2 STM8L101F1	"B", "Z" or "Y"

Table 2. Device summary

Reference	Part number
STM8L001J3	STM8L001J3
STM8L101xx	STM8L101F3 STM8L101G3 STM8L101K3 STM8L101F2 STM8L101G2 STM8L101F1

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1 STM8L001J3 and STM8L101xx silicon limitations

Table 3 gives a summary of the fix status.

Legend for *Table 3*: A = workaround available; N = no workaround available; P = partial workaround available, '-' and grayed = fixed.

Table 3. Summary of STM8L001J3 and STM8L101xx silicon limitations

Section	Limitation	Rev B	Rev Z	Rev Y
	Section 1.1.1: Interrupt service routine (ISR) executed with priority of main process		N	
	Section 1.1.2: Main CPU execution is not resumed after an ISR resets the AL bit		Α	
Core limitations	Section 1.1.3: Unexpected DIV/DIVW instruction result in ISR		Α	
	Section 1.1.4: Incorrect code execution when WFE execution is interrupted by ISR or event		А	
	Section 1.1.5: Incorrect code execution when FLASH/EEPROM memory wakes up from power down mode		Α	
System limitations	Section 1.2.1: PA0, PB0 and PB4 configuration "at reset state" and "under reset"	N		
	Section 1.3.1: I ² C event management		Α	
I ² C peripheral limitations	Section 1.3.2: Last received data can be wrong in master receiver mode		Α	
	Section 1.3.3: Wrong behaviors of the I ² C peripheral in master mode after a misplaced Stop		Α	
	Section 1.3.4: Mismatch on the "Setup time for a repeated Start condition" timing parameter		Α	
	Section 1.3.5: In slave "NOSTRETCH" mode, underrun errors may not be detected and could generate bus errors		Α	
USART peripheral limitations	Section 1.4.1: IDLE frame detection not supported in the case of a clock deviation		N	
	Section 1.4.2: PE flag can be cleared in Duplex mode by writing to the data register		Α	
	Section 1.4.3: PE flag is not set in Mute mode using address mark detection		N	
	Section 1.4.4: IDLE flag is not set using address mark detection		N	



Table 4. Summary of STM8L001J3 and STM8L101xx silicon limitations (continued)

Section	Limlitation	Rev B	Rev Z	Rev Y
SPI peripheral limitations	Section 1.5.1: CRC may be corrupted by SPI configuration or other bus transfers		Α	
	Section 1.5.2: Anticipated communication upon SPI transit from slave receiver to master		Α	
	Section 1.5.3: BSY bit may stay high at the end of data transfer in slave mode		А	

1.1 Core limitations

1.1.1 Interrupt service routine (ISR) executed with priority of main process

Description

If an interrupt is cleared or masked when the context saving has already started, the corresponding ISR is executed with the priority of the main process.

Workaround

None.

No fix is planned for this limitation.

1.1.2 Main CPU execution is not resumed after an ISR resets the AL bit

Description

If the CPU is in wait for interrupt state and the AL bit is set, the CPU returns to wait for interrupt state after executing an ISR. To continue executing the main program, the AL bit must be reset by the ISR. When AL is reset just before exiting the ISR, the CPU may remain stalled.

Workaround

Reset the AL bit at least two instructions before the IRET instruction.

No fix is planned for this limitation.

1.1.3 Unexpected DIV/DIVW instruction result in ISR

Description

In very specific conditions, a DIV/DIVW instruction may return a false result when executed inside an interrupt service routine (ISR). This error occurs when the DIV/DIVW instruction is interrupted and a second interrupt is generated during the execution of the IRET instruction of the first ISR. Under these conditions, the DIV/DIVW instruction executed inside the second ISR, including function calls, may return an unexpected result.

The applications that do not use the DIV/DIVW instruction within ISRs are not impacted.

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Workaround 1

If an ISR or a function called by this routine contains a division operation, the following assembly code should be added inside the ISR before the DIV/DIVW instruction:

```
push cc
pop a
and a,#$BF
push a
pop cc
```

This sequence should be placed by C compilers at the beginning of the ISR using DIV/DIVW. Refer to your compiler documentation for details on the implementation and control of automatic or manual code insertion.

Workaround 2

To optimize the number of cycles added by workaround 1, you can use this workaround instead. Workaround 2 can be used in applications with fixed interrupt priorities, identified at the program compilation phase:

```
push #value
pop cc
```

where bits 5 and 3 of #value have to be configured according to interrupt priority given by I1 and I0, and bit 6 kept cleared.

In this case, compiler workaround 1 has to be disabled by using compiler directives.

No fix is planned for this limitation.

1.1.4 Incorrect code execution when WFE execution is interrupted by ISR or event

Description

Two types of failures can occur:

Case 1:

In case WFE instruction is placed in the two MSB of the 32-bit word within the memory, an event which occurs during the WFE execution cycle or re-execution cycle (when returning from ISR handler) will cause an incorrect code execution.

Case 2:

An interrupt request, which occurs during the WFE execution cycle will lead to incorrect code execution. This is also valid for the WFE re-execution cycle, while returning from an ISR handler.

The above failures have no impact on the core behavior when the ISR request or events occur in Wait for Event mode itself, out of the critical single cycle of WFE instruction execution.

Workaround

General solution is to ensure no interrupt request or event occurs during WFE instruction execution or re-execution cycle by proper application timing.

Dedicated workarounds:



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Case 1:

Replace the WFE instruction with

```
WFE

JRA next

next:
```

Case 2:

It is recommended to avoid any interrupts before WFE mode is entered. This can be done by disabling all interrupts before the device enters Wait for event mode.

SIM WFE RIM

This workaround also prevents WFE re-execution in case 1.

No fix is planned for this limitation.

1.1.5 Incorrect code execution when FLASH/EEPROM memory wakes up from power down mode

Description

In case FLASH/EEPROM memory is put in power down mode (I_{DDQ}), first read after wakeup could return an incorrect content when F_{CPLI} is above 8 MHz + 5%.

FLASH/EEPROM memory is put in I_{DDQ} mode by default during Halt mode and could be forced to I_{DDQ} mode by software for wait mode and during RAM execution.

As a consequence, following behavior may be seen on some devices:

- After wakeup from Low power mode with FLASH memory in I_{DDQ} mode, program execution gets lost due to incorrect read of vector table.
- Code running from RAM read an incorrect value from FLASH/EEPROM memory, when forced in I_{DDQ} mode.
- Program execution gets corrupted when returning from RAM execution to FLASH memory execution in case FLASH memory is forced in I_{DDQ} mode.

Workaround

Slow down F_{SYSCLK} before entering Low power mode to ensure correct FLASH memory wakeup. This could be done using clock divider (CLK_CKDIVR) or by activation of fast wakeup feature by setting FHWU bit in CLK_ICKCR register. Original clock setting can be reconfigured back by software after wakeup.

Code example, assuming no divider is used in application by default.

```
CLK_CKDIVR = 0x01;
_asm("HALT");
CLK CKDIVR = 0x00;
```

The interrupt service routine executed after wakeup could either stay at slower clock speed, or reconfigure clock setting. Care has to be taken to restore previous clock divider at the end of interrupt routines when modifying clock divider.

T

No fix is planned for this limitation.

1.2 System limitations

1.2.1 PA0, PB0 and PB4 configuration "at reset state" and "under reset"

Description

When a reset occurs, PA0, PB0 and PB4 configurations differ from the configuration of the other pins:

- PA0 is configured as input with pull-up under reset (i.e. during the reset phase) and at reset state (i.e. after internal reset release).
- A pull-up is applied to PB0 and PB4 under reset (i.e. during the reset phase). These two pins are input floating at reset state (i.e. after internal reset release).

Workaround

None.

No fix is planned for this limitation.

1.3 I²C peripheral limitations

1.3.1 I²C event management

Description

As described in the I²C section of the STM8L001J3 and STM8L101xx microcontrollers reference manual (RM0013), the application firmware has to manage several software events before the current byte is transferred. If the EV7, EV7_1, EV6_1, EV6_3, EV2, EV8, and EV3 events are not managed before the current byte is transferred, problems may occur such as receiving an extra byte, reading the same data twice, or missing data.

Workaround

When the EV7, EV7_1, EV6_1, EV6_3, EV2, EV8, and EV3 events cannot be managed before the current byte transfer, and before the acknowledge pulse when the ACK control bit changes, it is recommended to use I²C interrupts in nested mode and to make them uninterruptible by increasing their priority to the highest priority in the application.

No fix is planned for this limitation.

1.3.2 Last received data can be wrong in master receiver mode

Conditions

In Master Receiver mode, when the communication is closed using method 2, the content of the last read data may be corrupted. The following two sequences are concerned by the limitation:

- Sequence 1: transfer sequence for master receiver when N = 2
 - a) BTF = 1 (Data N-1 in DR and Data N in shift register)
 - b) Program STOP = 1
 - c) Read DR twice (Read Data N-1 and Data N) just after programming the STOP bit.
- Sequence 2: transfer sequence for master receiver when N > 2
 - a) BTF = 1 (Data N-2 in DR and Data N-1 in shift register)
 - b) Program ACK = 0
 - c) Read Data N-2 in DR
 - d) Program STOP bit to 1
 - e) Read Data N-1.

Description

The content of the shift register (data N) is corrupted (data N is shifted 1 bit to the left) if the user software is not able to read data N-1 before the STOP condition is generated on the bus. In this case, reading data N returns a wrong value.

Workarounds

- Workaround 1
 - Sequence 1

When sequence 1 is used to close communication using method 2, mask all active interrupts between STOP bit programming and Read data N-1.

Sequence 2

When sequence 2 is used to close communication using method 2, mask all active interrupts between Read data N-2, STOP bit programming and Read data N-1.

Workaround 2

Manage I2C RxNE and TxE events with interrupts of the highest priority level, so that the condition BTF = 1 never occurs.

No fix is planned for this limitation.

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1.3.3 Wrong behaviors of the I²C peripheral in master mode after a misplaced Stop

Description

The I²C peripheral does not enter Master mode properly if a misplaced STOP is generated on the bus. This can happen in the following conditions:

- If a void message is received (START condition immediately followed by a STOP): the BERR (bus error) flag is not set, and the I²C peripheral is not able to send a START condition on the bus after writing to the START bit in the I2C_CR2 register.
- In the other cases of a misplaced STOP, the BERR flag is set in the IC2_CR2 register. If the START bit is already set in I2C_CR2, the START condition is not correctly generated on the bus and can create bus errors.

Workaround

In the I²C standard, it is not allowed to send a STOP before the full byte is transmitted (8 bits + acknowledge). Other derived protocols like CBUS allow it, but they are not supported by the I²C peripheral.

In case of noisy environment in which unwanted bus errors can occur, it is recommended to implement a timeout to ensure that the SB (start bit) flag is set after the START control bit is set. In case the timeout has elapsed, the peripheral must be reset by setting the SWRST bit in the I2C_CR2 control register. The I²C peripheral should be reset in the same way if a BERR is detected while the START bit is set in I2C_CR2.

No fix is planned for this limitation.

1.3.4 Mismatch on the "Setup time for a repeated Start condition" timing parameter

Description

In case of a repeated Start, the "setup time for repeated START condition" parameter (named $t_{SU(STA)}$ in the datasheet and Tsu:sta in the I²C specifications) may be slightly violated when the I²C operates in Master Standard mode at a frequency ranging from 88 to 100 kHz. $t_{SU(STA)}$ minimum value may be 4 µs instead of 4.7 µs.

The issue occurs under the following conditions:

- The I²C peripheral operates in Master Standard mode at a frequency ranging from 88 to 100 kHz (no issue in Fast mode)
- 2. and the SCL rise time meets one of the following conditions:
 - The slave does not stretch the clock and the SCL rise time is more than 300 ns (the issue cannot occur when the SCL rise time is less than 300 ns).
 - or the slave stretches the clock.

Workaround

Reduce the frequency down to 88 kHz or use the I²C Fast mode if it is supported by the slave.

No fix is planned for this limitation.



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1.3.5 In slave "NOSTRETCH" mode, underrun errors may not be detected and could generate bus errors

Description

The data valid time ($t_{VD;DAT}$, $t_{VD;ACK}$) described by the I^2C specifications may be violated as well as the maximum current data hold time ($t_{HD;DAT}$) under the conditions described below. In addition, if the data register is written too late and close to the SCL rising edge, an error may be generated on the bus: SDA toggles while SCL is high. These violations cannot be detected because the OVR flag is not set (no transmit buffer underrun is detected).

This issue occurs under the following conditions:

- 1. The I²C peripheral operates In Slave transmit mode with clock stretching disabled (NOSTRETCH=1)
- 2. and the application is late to write the DR data register, but not late enough to set the OVR flag (the data register is written before the SCL rising edge).

Workaround

If the master device supports it, use the clock stretching mechanism by programming the bit NOSTRETCH=0 in the I2C CR1 register.

If the master device does not support it, ensure that the write operation to the data register is performed just after TXE or ADDR events. You can use an interrupt on the TXE or ADDR flag and boost its priority to the higher level.

Using the "NOSTRETCH" mode with a slow I²C bus speed can prevent the application from being late to write the DR register (second condition).

Note:

The first data to be transmitted must be written into the data register after the ADDR flag is cleared, and before the next SCL rising edge, so that the time window to write the first data into the data register is less than t_{LOW} .

If this is not possible, a possible workaround can be the following:

- 1. Clear the ADDR flag
- 2. Wait for the OVR flag to be set
- 3. Clear OVR and write the first data.

The time window for writing the next data is then the time to transfer one byte. In that case, the master must discard the first received data.

No fix is planned for this limitation.

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1.4 USART peripheral limitations

1.4.1 IDLE frame detection not supported in the case of a clock deviation

Description

An idle frame cannot be detected if the receiver clock is deviated.

If a valid idle frame of a minimum length (depending on the M and Stop bit numbers) is followed without any delay by a start bit, the IDLE flag is not set if the receiver clock is deviated from the RX line (only if the RX line switches before the receiver clock).

Consequently, the IDLE flag is not set even if a valid idle frame occurred.

Workaround

None.

No fix is planned for this limitation.

1.4.2 PE flag can be cleared in Duplex mode by writing to the data register

Description

The PE flag can be cleared by a read to the USART_SR register followed by a read or a write to the USART DR register.

When working in duplex mode, the following event can occur: the PE flag set by the receiver at the end of a reception is cleared by the software transmitter reading the USART_SR (to check TXE or TC flags) and writing a new data into the USART_DR.

The software receiver can also read a PE flag at '0' if a parity error occurred.

Workaround

The PE flag should be checked after the end of reception and before transmission.

No fix is planned for this limitation.

1.4.3 PE flag is not set in Mute mode using address mark detection

Description

If, when using address mark detection, the receiver recognizes in Mute mode a valid address frame but the parity check fails, it exits from the Mute mode without setting the PE flag.

Workaround

None.

No fix is planned for this limitation.

1.4.4 IDLE flag is not set using address mark detection

Description

The IDLE flag is not set when the address mark detection is enabled, even when the USART is in Run mode (not only in Mute mode).

Workaround

None.

No fix is planned for this limitation.

1.5 SPI peripheral limitations

1.5.1 CRC may be corrupted by SPI configuration or other bus transfers

Description

When the CRC is enabled (CRCEN bit set in the SPI_CR2 register), the CRC calculation may be corrupted, or unreliable if one of the following conditions is met:

- The CPHA bit, the CPOL bit, or the CRCPOLY bitfield is configured.
- The value of the polynomial programmed in the CRCPOLY bitfield of the SPI_CRCPR register is even.
- A bus transfer is ongoing with another slave, or parasitic pulses are observed on the SCK output when the SPI is enabled in slave mode but not selected for communication.

Workaround

Both the master and slave must reset and resynchronize their CRC calculation just before starting a new transfer secured by CRC.

Apply the following measures:

- Always configure the CPHA bit, the CPOL bit, and the CRCPOLY bitfield before setting the CRCEN bit.
- Always program an odd polynomial value in the CRCPOLY bitfield of the SPI_CRCPR register (bit 0 set).
- Before starting any transfer secured by CRC calculation, clear and set again the CRCEN bit while the SPI is disabled.

1.5.2 Anticipated communication upon SPI transit from slave receiver to master

Description

The communication clock starts upon setting the MSTR bit even though the SPI is disabled, if transiting from the enabled slave receive-only mode (RXONLY = 1) to whatever master mode.

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Workaround

Set the MSTR and SPE bits of the SPI_CR1 register simultaneously, which forces the immediate start of the communication clock.

If the master is configured in transmitter mode (full-duplex or simplex), load the first data into the SPI DR data register before configuring the SPI CR1 register.

1.5.3 BSY bit may stay high at the end of data transfer in slave mode

Description

The BSY flag may sporadically remain high at the end of a data transfer in slave mode. The issue appears when an accidental synchronization happens between the internal CPU clock and the external SCK clock provided by the master.

This is related to the end of data transfer detection while the SPI is enabled in slave mode.

As a consequence, the end of the data transaction may be not recognized when the software needs to monitor it (for example at the end of a session before entering the low-power mode or before the direction of the data line has to be changed at half duplex bidirectional mode). The BSY flag is unreliable to detect the end of any data sequence transaction.

Workaround

Depending on SPI operating mode, use the following means for detecting the end of transaction:

- When NSS hardware management is applied and NSS signal is provided by master, use NSS input.
- In SPI receiving mode, use the corresponding RXNE event flag.
- In SPI transmit-only mode, use the BSY flag in conjunction with a timeout expiry event. Set the timeout such as to exceed the expected duration of the last data frame and start it upon TXE event that occurs with the second bit of the last data frame. The end of the transaction corresponds to either the BSY flag becoming low or the timeout expiry, whichever happens first.

Prefer one of the first two measures to the third as they are simpler and less constraining. Alternatively, apply the following sequence to ensure reliable operation of the BSY flag in SPI transmit mode:

- 1. Write the last data to the data register.
- 2. Poll TXE until it becomes high to ensure the data transfer has started.
- 3. Disable SPI by clearing SPE while the last data transfer is still ongoing.
- 4. Poll the BSY bit until it becomes low.
- 5. The BSY flag works correctly and can be used to recognize the end of the transaction.

This sequence can be used only when the CPU has enough performance to disable the SPI after a TXE event is detected, while the data frame transfer is still ongoing. It is impossible to achieve it when the ratio between CPU and SPI clock is low. In this specific case, the BSY check timeout can be measured by executing a fixed number of dummy instructions (such as NOP), corresponding to the time necessary to complete the data frame transaction.



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2 Important security notice

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3 Revision history

Table 5. Document revision history

Date	Revision	Changes
22-Jul-2010	1	Initial release.
12-Aug-2010	2	Updated Table 3. Added Section 1.1.1: Main CPU execution is not resumed after an ISR resets the AL bit.
04-Feb-2011	3	Updated <i>Table 3</i> and <i>Section 1.3: I²C peripheral limitations</i> . Added <i>Section 1.1.2: Unexpected DIV/DIVW instruction result in ISR</i> .
11-Jul-2011	4	Added Section 1.1.1: Interrupt service routine (ISR) executed with priority of main process and Section 1.1.4: Incorrect code execution when WFE execution is interrupted by ISR or event.
25-Feb-2013	5	Added part number STM8L101F1 to Table 1 and Table 2. Modified Section 1.1.4: Incorrect code execution when WFE execution is interrupted by ISR or event.
18-Jun-2013	6	Added Section 1.1.5: Incorrect code execution when FLASH/EEPROM memory wakes up from power down mode.
11-Oct-2017	7	Updated document to include STM8L001J3 device.
	8	Added:
		Section 1.5: SPI peripheral limitations
14-Feb-2023		Section 1.5.1: CRC may be corrupted by SPI configuration or other bus transfers
		Section 1.5.2: Anticipated communication upon SPI transit from slave receiver to master
		Section 1.5.3: BSY bit may stay high at the end of data transfer in slave mode
		Chapter 3: Important security notice on page 15 Updated:
		Section Table 3.: Summary of STM8L001J3 and STM8L101xx silicon limitations
06-Mar-2023	9	Updated: Section 1.5.1: CRC may be corrupted by SPI configuration or other bus transfers

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