

# Version update

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JX3-CNT  
Version update from v1.02 to v1.03

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Original document

Document revision: 1.00  
Date of issue: 8/26/2024

# 1 Fixed software bugs

## 1.1 Auto reset of strobe per counter

### 1.1.1 Behavior of version v1.02.0.00

When changing the settings of a counter with strobe function (counters A-C and both dual-channel counters) using the commands **40** (clear strobe bit on reading) and **41** (clear strobe bit manually), the system would apply the changes to the remaining four counters as well.

There was no way of reading the settings.

### 1.1.2 New behavior from v1.03.0.00 onwards

The setting for manual or automatic strobe reset applies only to the counter whose commande register MR 1y01 is addressed by the 40/41 commands.

Registers	Description
<b>1y01</b>	<b>Command</b>
40	Clear strobe bit on reading
41	Clear strobe bit manually

A new bit was added to the status register of channels MR 1y00 allowing users to read the setting:

Registers	Description
<b>1y00</b>	<b>Counter state</b>
Bit 17 = 1	Auto reset of strobe on reading
Bit 17 = 0	Manual reset of strobe required

## 2 New additions

### 2.1 Frequency measurements

Two new module registers were introduced for all nine counters ( $y = 1 \dots 9$ ) and the SSI interface:

#### MR 1y71

The frequency is calculated based on the changes of the count value logged during the preset time period.

Property	Description
Read	Present time interval of frequency measurement
Write access	New time interval
Value range	1 ... 255 [10 ms]
Value after reset	100

#### MR 1y77

##### Frequency [Hz]

Property	Description
Read	Calculated frequency in Hz
Value range	0 ... 2147483647
Value after reset	0

## SSI interface

### MR 2071

The frequency is calculated based on the changes of the count value logged during the preset time period.

Property	Description
Read	Present time interval of frequency measurement
Write access	New time interval
Value range	1 ... 255 [10 ms]
Value after reset	100

### MR 2077

#### Frequency [Hz]

Property	Description
Read	Calculated frequency in Hz
Value range	0 ... 2147483647
Value after reset	0