



## Product Change Notification / SYST-05HTVW873

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### Date:

07-Dec-2022

### Product Category:

Microprocessors

### PCN Type:

Document Change

### Notification Subject:

Data Sheet - SAMA5D2 Series

### Affected CPNs:

[SYST-05HTVW873\\_Affected\\_CPN\\_12072022.pdf](#)  
[SYST-05HTVW873\\_Affected\\_CPN\\_12072022.csv](#)

### Notification Text:

SYST-05HTVW873

Microchip has released a new Datasheet for the SAMA5D2 Series of devices. If you are using one of these devices please read the document located at [SAMA5D2 Series](#).

**Notification Status:** Final

**Description of Change:** Revision includes:

Global

- Editorial changes throughout.

Power Management Controller (PMC)

- Main Clock Source Selection: updated naming to ULP1 mode.
- CKGR\_MOR: updated naming to ULP1 mode.
- CKGR\_MCFR: updated access for MAINF.
- PMC\_SR: updated access for XT32KERR.

DDR-SDRAM Controller (MPDDRC)

- Renamed and updated Bus Monitor, Performance Monitor

#### Static Memory Controller (SMC)

- HSMC\_ELPRIM, HSMC\_MODE, HSMC\_PMECCx: updated reset values.
- HSMC\_MODE: added PS field.

#### DMA Controller (XDMAC)

- Description: updated.
- XDMAC\_CC: updated reset value.

#### Gigabit Ethernet MAC (GMAC)

- Receive Buffer List: updated.
- Transmit Buffer List: updated.
- GTSUCOMP External Connection: updated.

#### USB Device High-Speed Port (UDPHS)

- 40.6.9. Transfer Without DMA: modified code content.

#### Synchronous Serial Controller (SSC)

- Audio Sampling Rate Limitations: added.
- SSC\_WPMR: updated WPEN bit description.

#### Two-Wire Interface (TWIHS)

- Asynchronous Partial Wake-Up: updated.

#### Flexible Serial Communication Controller (FLEXCOM)

- Updated:
  - SPI Comparison Function on Received Character
  - SPI Asynchronous and Partial Wake-Up
  - TWI Asynchronous and Partial Wake-Up
- Bus Clear Command, FIFO Pointer Error, FLEX\_TWI\_CR: modified.
- FLEX\_TWI\_SR: updated reset value

#### Quad Serial Peripheral Interface (QSPI)

- QSPI Bus Clock Modes: updated.

#### Secure Digital MultiMedia Card Controller (SDMMC)

- SDMMC\_CAOR: added Note 2
- SDMMC\_PSR: modified reset value

#### Image Sensor Controller (ISC)

- Index 16:31 now 'reserved' in:
  - ISC\_DST0
  - ISC\_DST1
  - ISC\_DST2
- Descriptor Memory Mapping: updated column "Address" in tables Table 51-4, Table 51-5, Table 51-6
- ISC\_DCTRL: updated DVIEW description.

#### Pulse Width Modulation Controller (PWM)

- Fault Protection: figure updated.
- PWM\_SMMR: updated.
- PWM\_ETRGx, PWM\_LEBRx: updated.

#### Advanced Encryption Standard (AES)

- Secure Protocol layers Improved Performances: updated.
- AES\_MR: updated reset value.

#### Triple Data Encryption Standard (TDES)

- TDES\_MR: updated reset value.

#### Analog Comparator Controller (ACC)

- Description, Embedded Characteristics: updated.

#### Analog-to-Digital Controller (ADC)

- Asynchronous Partial Wakeup: updated.
- ADC\_EMR: updated.

#### Electrical Characteristics

- Absolute Maximum Ratings: added injected current information.
- DC Characteristics: added. VIL and VIH values updated.
- Table 66-5 to Table 66-8: added.

**Impacts to Data Sheet:** See above details.

**Reason for Change:** To Improve Productivity

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 07 Dec 2022

**NOTE:** Please be advised that this is a change to the document only the product has not been changed.

**Markings to Distinguish Revised from Unrevised Devices:** N/A

## Attachments:

[SAMA5D2 Series](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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Affected Catalog Part Numbers (CPN)

ATSAMA5D26C-CU  
ATSAMA5D27C-CU  
ATSAMA5D28C-CU  
ATSAMA5D24C-CU  
ATSAMA5D21C-CU  
ATSAMA5D22C-CU  
ATSAMA5D23C-CU  
ATSAMA5D26C-CN  
ATSAMA5D27C-CN  
ATSAMA5D28C-CN  
ATSAMA5D22C-CN  
ATSAMA5D23C-CN  
ATSAMA5D26C-CNR  
ATSAMA5D27C-CNR  
ATSAMA5D28C-CNR  
ATSAMA5D27C-CNRVAO  
ATSAMA5D22C-CNR  
ATSAMA5D23C-CNR  
ATSAMA5D26C-CUR  
ATSAMA5D27C-CUR  
ATSAMA5D28C-CUR  
ATSAMA5D24C-CUR  
ATSAMA5D21C-CUR  
ATSAMA5D22C-CUR  
ATSAMA5D23C-CUR