Product Change Notification: SYST-28GHEF359

Date:

03-Jul-2025

Product Category:

32-Bit Microprocessors

Notification Subject:

Data Sheet - SAMA7D6 Series Data Sheet

Affected CPNs:

SYST-28GHEF359_Affected_CPN_07032025.pdf
SYST-28GHEF359_Affected_CPN_07032025.csv

Notification Text:

SYST-28GHEF359
Microchip has released a new Datasheet for the SAMA7D6 Series Data Sheet of devices. If you are using one of these devices please read the document located at **SAMA7D6 Series Data Sheet**. **Notification Status:** Final **Description of Change:** General -Added content related to Extended Industrial and Automotive devices SAMA7D65(T)-E/4HB(-SLx)(VAO) Cortex-A7 Processor (Arm) - Updated Reference Documents, Renamed and reworked section System Counter and Generic Timer System Interconnect and Security (SIS) - Updated AHB, Table 14.1, Table 14.10 Debug and Test - Updated Figure 17.1 External Interrupt Controller (EIC) EIC_SCFGxR: updated reset value

Boot Strategies - Reworked NVM Boot Sequence, Booting with OTP Emulation Mode, SAM-BA Monitor Serial Connection, Updated Using a Boot Configuration Packet, Boot Configuration Packet, Software Considerations, Device Specific Data for User Application

Analog-to-Digital Converter (ADC) Controller - Added ADC Input Sampling Capacitor Charging Time (Tracking Time), Maximum Sampling Frequency, Analog-to-Digital Conversion: updated tracking time information, ADC_MR: updated TRACKTIM description

LCD Controller (LCDC) - Embedded Characteristics: updated Resolution characteristic

Display Serial Interface (DSI) - High-Speed Frequency Range Control Operation: updated Table 50.3, D-PHY PLL Control Operation: updated Table 50.4

Triple Data Encryption Standard (TDES) - Updated Security and Safety Analysis and Reports, TDES_MR: modified PKRS description

Physical Unclonable Functions (PUF) - PUF_ASIER, PUF_ASISR: added bit KELEE

Quad Serial Peripheral Interface (QSPI) - Added End of Frame Procedure

Secure Digital MultiMedia Card Controller (SDMMC) - SDMMC_MC3R: corrected DQSUPVAL position

USB Device High Speed Port (UDPHS) - Updated Power Management, Updated Important note in Transfer Without DMA

Electrical Characteristics - Updated ESD Ratings

Impacts to Data Sheet: None

Change Implementation Status: Complete

Date Document Changes Effective: 03 July 2025

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:

SAMA7D6 Series Data Sheet

Please contact your local **Microchip sales office** with questions or concerns regarding this notification.

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