# MICROCHIP

## Product Change Notification - SYST-04KONP200

**Date:**

05 Jul 2019

**Product Category:**

8-bit Microcontrollers

**Affected CPNs:**

**Notification subject:**

Data Sheet - ATtiny212/412 Data Sheet

**Notification text:**

SYST-04KONP200

Microchip has released a new DeviceDoc for the ATtiny212/412 Data Sheet of devices. If you are using one of these devices please read the document located at ATtiny212/412 Data Sheet.

**Notification Status:** Final

**Description of Change:**

1. Document section: Editorial updates
2. Device section:
a. Introduction:
- Added a note for automotive data sheets
- Changed text to align with all tinyAVR&reg; 0- and 1-series data sheets
 b. Retention endurance numbers updated
 c. Data Sheet Clarification Document chapter added
 d. Ordering Information moved
e. I/O Multiplexing and Considerations updated.
f. Removed references to unsupported external 32 kHz oscillator
3. Configuration and User Fuses section: RSTPINCFG: Time-out after a system reset when fused to be GPIO explained.
4. PORTMUX section: Updated with missing information
5. BOD - Brown-out Detector section: Removed levels not characterized by minimum and maximum values and Added a note for typical values and reference to electrical characteristics.
6. TCA section: Added a note for alternative WOn pins
7. USART section: Clarified One-Wire mode, clarified text about Disabling the Transmitter and Reverted 32&plusmn;6 to 16&plusmn;3 baud samples in RXMODE bits in CTRLB
8. SPI section: Clarified functionality for SPI SS pin
9. CRCSCAN section: Removed unsupported BACKGROUND
10. ADC - Analog-to-Digital Converter section: Added missing calibration register
11. UPDI section: Added warning for ESD protection and GPIO functionality disabled for a period after a system reset, changed from ms to clock cycles
12. Electrical Characteristics section: Added a note for Chip Erase in General Operating Ratings and Corrected the description for some symbols in the I/O Pin Characteristics table
13. Errata section: Errata moved to ATtiny212/412 Silicon Errata and Data Sheet Clarification Document
14. Ordering Information section: Updated with product page links and ordering codes
15. Product Identification System section: Updated with Tube and Tray packing media
16. Package Drawings section: Updated package drawings to Microchip standard

**Impacts to Data Sheet:** None

**Reason for Change:** To Improve Manufacturability

![Microchip logo]

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 5 Jul 2019

**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
**Attachment(s):**
ATtiny212/412 Data Sheet


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

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If you wish to change your PCN profile, including opt out, please go to the PCN home page select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

ATTINY212-SSF
ATTINY212-SSFR
ATTINY212-SSN
ATTINY212-SSNR
ATTINY412-SSF
ATTINY412-SSFR
ATTINY412-SSN
ATTINY412-SSNR