

## Product Change Notification - SYST-04TVFI245

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**Date:**

05 Jul 2019

**Product Category:**

8-bit Microcontrollers

**Affected CPNs:****Notification subject:**

Data Sheet - ATtiny1616/3216 Data Sheet Document Revision

**Notification text:**

SYST-04TVFI245

Microchip has released a new DeviceDoc for the ATtiny1616/3216 Data Sheet of devices. If you are using one of these devices please read the document located at [ATtiny1616/3216 Data Sheet](#).

**Notification Status:** Final**Description of Change:**

- 1) Document: Editorial updates.
- 2) Device:
  - (a) Introduction:
    - Added a note for automotive data sheets
    - Changed text to align with all tinyAVR(R) 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
- 3) Configuration and User Fuses:
  - (a) CRCAPPDIS and CRCBOOTDIS replaced by CRCSRC
  - (b) Clarified text and added a note for 16k devices in TOUTDIS bit
  - (c) RSTPINCFG: Time-out after a system reset when fused to be GPIO explained
- 4) PORTMUX: Updated with missing information
- 5) BOD - Brown-out Detector:
  - (a) Removed levels not characterized by minimum and maximum values
  - (b) Added a note for typical values and reference to electrical characteristics
- 6) VREF - Voltage Reference: Missing CTRLC and CTRLD registers added
- 7) TCA: Added a note for alternative WOn pins
- 8) USART:
  - (a) Clarified One-Wire mode
  - (b) Clarified text about Disabling the Transmitter
- 9) SPI: Clarified functionality for SPI SS pin
- 10) CRCSCAN: Added a missing MODE bit field
- 11) CCL: Removed reference to interrupts
- 12) UPDI: GPIO functionality disabled for a period after a system reset, changed from ms to clock cycles
- 13) Electrical Characteristics:
  - (a) Added a note for Chip Erase in General Operating Ratings
  - (b) Corrected the number of PTC channels
- 14) Errata: Errata moved to ATtiny1616/3216 Silicon Errata and Data Sheet Clarification Document
- 15) Ordering Information: Updated with product page links and ordering codes
- 16) Product Identification System: Updated with Tube and Tray packing media
- 17) Package Drawings: Updated package drawings to Microchip standard

**Impacts to Data Sheet:** None



**Reason for Change:** To Improve Manufacturability

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 05 July 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):**

[ATtiny1616/3216 Data Sheet](#)

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

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Affected Catalog Part Numbers (CPN)

ATTINY1616-MFR  
ATTINY1616-MNR  
ATTINY1616-MNRA0  
ATTINY1616-SF  
ATTINY1616-SFR  
ATTINY1616-SN  
ATTINY1616-SNR  
ATTINY3216-SF  
ATTINY3216-SFR  
ATTINY3216-SN  
ATTINY3216-SNR