



Product Change Notification / SYST-02AMFX809

Date:

03-May-2024

Product Category:

8-Bit Microcontrollers

PCN Type:

Document Change

Notification Subject:

ATmega48A/PA/88A/PA/168A/PA/328/P Silicon Errata and Data Sheet Clarification

Affected CPNs:

[SYST-02AMFX809_Affected_CPN_05032024.pdf](#)

[SYST-02AMFX809_Affected_CPN_05032024.csv](#)

Notification Text:

SYST-02AMFX809

Microchip has released a new Document for the ATmega48A/PA/88A/PA/168A/PA/328/P Silicon Errata and Data Sheet Clarification of devices. If you are using one of these devices please read the document located at [ATmega48A/PA/88A/PA/168A/PA/328/P Silicon Errata and Data Sheet Clarification](#).

Notification Status: Final

Description of Change:

- Document:
 - Editorial updates
- Added new data sheet clarifications:
 - System Clock and Clock Options:
 - 3.1.1. Low-Power Crystal Oscillator
 - 3.1.2. Full Swing Crystal Oscillator
 - 3.1.3. Low-Frequency Crystal Oscillator
 - 3.1.4. Calibrated Internal RC Oscillator
 - 3.1.5. 128 kHz Internal Oscillator
 - 3.1.6. External Clock

Impacts to Data Sheet: None

Reason for Change: To Improve Productivity

Change Implementation Status: Complete

Date Document Changes Effective: 03 May 2024

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:

[ATmega48A/PA/88A/PA/168A/PA/328/P Silicon Errata and Data Sheet Clarification](#)

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

Terms and Conditions:

If you wish to receive Microchip PCNs via email please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

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)

ATMEGA168A-AU
ATMEGA168A-AUR
ATMEGA168A-MMH
ATMEGA168A-MMHR
ATMEGA168A-MU
ATMEGA168A-MUR
ATMEGA168A-PU
ATMEGA168PA-AN
ATMEGA168PA-ANR
ATMEGA168PA-AU
ATMEGA168PA-AUR
ATMEGA168PA-MMH
ATMEGA168PA-MMHR
ATMEGA168PA-MN
ATMEGA168PA-MNR
ATMEGA168PA-MU
ATMEGA168PA-MUR
ATMEGA168PA-MURA2
ATMEGA168PA-PN
ATMEGA168PA-PU
ATMEGA328-AU
ATMEGA328-AUR
ATMEGA328-MMH
ATMEGA328-MMHR
ATMEGA328-MU
ATMEGA328-MUR
ATMEGA328-PU
ATMEGA328P-AN
ATMEGA328P-ANR
ATMEGA328P-AU
ATMEGA328P-AUR
ATMEGA328P-MMH
ATMEGA328P-MMHR
ATMEGA328P-MN
ATMEGA328P-MNR
ATMEGA328P-MU
ATMEGA328P-MUA2
ATMEGA328P-MUR
ATMEGA328P-PN
ATMEGA328P-PU
ATMEGA48A-AU
ATMEGA48A-AUR
ATMEGA48A-MMH
ATMEGA48A-MMHR
ATMEGA48A-MU
ATMEGA48A-MUR

ATMEGA48A-PU
ATMEGA48PA-15AZ
ATMEGA48PA-15MZ
ATMEGA48PA-AN
ATMEGA48PA-ANR
ATMEGA48PA-AU
ATMEGA48PA-AUR
ATMEGA48PA-AURB0
ATMEGA48PA-MMH
ATMEGA48PA-MMHR
ATMEGA48PA-MMN
ATMEGA48PA-MMNR
ATMEGA48PA-MN
ATMEGA48PA-MNR
ATMEGA48PA-MU
ATMEGA48PA-MUR
ATMEGA48PA-PN
ATMEGA48PA-PU
ATMEGA88A-AU
ATMEGA88A-AUR
ATMEGA88A-MMH
ATMEGA88A-MMHR
ATMEGA88A-MU
ATMEGA88A-MUR
ATMEGA88A-PU
ATMEGA88PA-AN
ATMEGA88PA-ANR
ATMEGA88PA-AU
ATMEGA88PA-AUR
ATMEGA88PA-AURA3
ATMEGA88PA-MMH
ATMEGA88PA-MMHR
ATMEGA88PA-MMN
ATMEGA88PA-MMNR
ATMEGA88PA-MMUR
ATMEGA88PA-MN
ATMEGA88PA-MNR
ATMEGA88PA-MU
ATMEGA88PA-MUR
ATMEGA88PA-MURA6
ATMEGA88PA-PN
ATMEGA88PA-PU