

Dear Valued TRINAMIC Customer,

This notification is to inform you that a change will be done to the product listed below:

- **TMC5160-TA**
- **TMC5160-TA-T**
- **TMC5160-TA -X**
- **TMC2160-TA**
- **TMC2160-TA-T**
- **TMC2160-TA -X**
- **TMC5160-WA**
- **TMC5160-WA-T**
- **TMC5160-WA -X**

For samples and further questions, please contact your sales partner.

## Hardware changes

Due to product maintenance we qualified a new iteration of the TMC5160. Improvements:

- Improvement of external clock detection. Safe external clock detection at maximal duty cycles.
- Improvement of initial StealthChop™ tuning. StealthChop™ register values will be valid with initial start & stop sequence.

The new iteration will be marked with suffix “A”.

## Compatibility

The new revision TMCx160A is fully compatible. Notes on hardware compatibility:

- No change in mechanical dimensions.
- No change in electrical behavior of digital and analog core die.
- Functional improvement of clock detection and initial StealthChop™ tuning.
- Assembly, production and test facility stays unchanged.
- Digital and analog frontend of silicon stays unchanged.
- Drop-in compatible.

This improvement is classified as a minor change.



## Product Change Notification

TRINAMIC Motion Control GmbH & Co. KG  
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[www.trinamic.com](http://www.trinamic.com)

### Products Affected

Article Name	Affected Article Numbers	NEW Name	NEW Article Numbers
TMC5160-TA	00-0161	TMC5160A-TA	00-0179
TMC5160-TA-T	00-0161T	TMC5160A-TA-T	00-0179T
TMC5160-TA-X	00-0161X	TMC5160A-TA-X	00-0179X
TMC2160-TA	00-0166	TMC2160A-TA	00-0194
TMC2160-TA-T	00-0166T	TMC2160A-TA-T	00-0194T
TMC2160-TA-X	00-0166X	TMC2160A-TA-X	00-0194X
TMC5160-WA	00-0162	TMC5160A-WA	00-0192
TMC5160-WA-T	00-0162T	TMC5160A-WA-T	00-0192T
TMC5160-WA-X	00-0162X	TMC5160A-WA-X	00-0192X

### Schedule

Samples of TMCx160A are available on request. Please contact your local sales partner.

Trinamic will include changes in new production lots.

Effective date for hardware release	Q1/2020
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Please note that Trinamic will automatically send new revision TMCx160A with end of TMCx160 stock.

This PCN notice should be acknowledged within 30 days. Lack of acknowledgement of PCN within 30 days constitutes acceptance of change.