



## Product Change Notification

TRINAMIC Motion Control GmbH & Co. KG  
Waterloohain 5, 22769 Hamburg, Germany  
[www.trinamic.com](http://www.trinamic.com)

**PCN-2020-04-20**  
**April 20, 2020**

Dear Valued TRINAMIC Customer,

This notification is to inform you that a change will be done from engineering samples to series product listed below:

- **TMC4671-LA**

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

### Hardware Changes

#	TMC4671-ES Erratum	TMC4671-LA Fix	Description
1	SPI slave MSB read error	SPI slave correction	read via SPI slave now works correct
2	RTMI critical timing	RTMI enhanced	RTMI works with isolated RTMI-USB
3	PI advanced controller	PI scaling updated	scaling selectable available
4	ADC group clock cross talk	ADC clocks corrected	crosstalk eliminated
5	PWM_IDLE_L/_H un-used	weak pull-low resistors	adaption via external pull-up resistors
6	space vector PWM	SVPWM scaling corrected	SVPWM gives +12% effective voltage
7	step direction target position	processing corrected	step direction as target position
8	ABN encoder register access	access corrected	ABN counter over-writeable
9	ENI and ENO	function updated	ENI and ENO act as enable signal
10	-	Hall sync PWM sample	optional Hall sampling at PWM center

The hardware changes might have influence on the functionality in case of work arounds implemented for TMC4671-ES. We qualified the TMC4671-LA for series production. Qualification of application with TMC4671-LA is recommended for series production.

### Compatibility

The new revision of the TMC4671-LA is fully compatible. Notes on hardware compatibility:

- Assembly, production of core die and test facility stays unchanged.
- No change in mechanical dimensions. Test passed.
- Drop-in compatible.

This improvement is classified as a minor change (application dependent). Verification of changes in application is required.

### Products Affected

Article Name	Affected Article Numbers	NEW Name	NEW Article Numbers
TMC4671-ES	00-0163	TMC4671-LA	00-0197



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### Schedule

Samples of TMC4671-LA are available on request. Please contact your local sales partner.  
Trinamic will include changes in new production lots.

Effective date for hardware release
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April 20, 2020
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Please note that Trinamic will automatically send qualified series revision TMC4671-LA.

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