

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



Product Change Notification

TRINAMIC Motion Control GmbH & Co. KG
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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

April 20, 2020

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.