

Dear Valued Trinamic Customer,

This is to inform you that a new TMCL firmware version (V1.46) has been released for the modules listed in the table below.

New batches of the modules will be delivered preprogrammed with this new firmware release. Modules already shipped can be updated to this new release of the firmware using the provided firmware update feature of the TMCL-IDE. Prior releases are still available on the corresponding product pages on www.trinamic.com.

Changes:

TMCM-1021, TMCM-1140-TMCL, TMCM-1141, TMCM-1160-TMCL, TMCM-1161, TMCM-1181, TMCM-6110, PD-1021-TMCL, PD-1140-TMCL, PD-1141, PD-1160-TMCL, PD-1161
(TMCL Firmware V1.42 => V1.46)

- New TMCL commands supported.

TMCM-1240-TMCL, TMCM-1241-TMCL, TMCM-1260-TMCL, PD-1240-TMCL, PD-1241-TMCL, PD-1260-TMCL

(TMCL Firmware V1.44 => V1.46)

- Logic of axis parameters #10 and #11 inverted.
- Velocity dependent StallGuard switching corrected.
- Inrush current reduced.
- New TMCL commands supported.

This change is classified as a major change.

Products Affected

| Article Name | Article Numbers |
|----------------|-----------------|
| TMCM-1021 | 10-0372 |
| TMCM-1140-TMCL | 10-0371 |
| TMCM-1141 | 10-0375 |
| TMCM-1160-TMCL | 10-0276 |
| TMCM-1161 | 10-0385 |

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| TMCM-1181 | 10-0259 |
| TMCM-6110 | 10-0200 |
| PD28-1-1021-TMCL | 30-0358 |
| PD28-3-1021-TMCL | 30-0359 |
| PD42-1-1140-TMCL | 30-0354 |
| PD42-2-1140-TMCL | 30-0355 |
| PD42-3-1140-TMCL | 30-0356 |
| PD42-4-1140-TMCL | 30-0357 |
| PD42-1-1141 | 30-0420 |
| PD42-2-1141 | 30-0421 |
| PD42-3-1141 | 30-0422 |
| PD57-1-1160-TMCL | 30-0271 |
| PD57-2-1160-TMCL | 30-0272 |
| PD60-3-1160-TMCL | 30-0273 |
| PD60-4-1160-TMCL | 30-0274 |
| PD57-1-1161 | 30-0406 |
| PD57-2-1161 | 30-0407 |
| PD60-3-1161 | 30-0410 |
| PD60-4-1161 | 30-0411 |

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| TMCM-1240-TMCL | 10-0329 |
| TMCM-1241-TMCL | 10-0319 |
| TMCM-1260-TMCL | 10-0313 |
| PD42-1-1240-TMCL | 30-0346 |
| PD42-2-1240-TMCL | 30-0347 |
| PD42-3-1240-TMCL | 30-0348 |
| PD42-4-1240-TMCL | 30-0349 |
| PD42-3-1241-TMCL | 30-0322 |
| PD42-4-1241-TMCL | 30-0366 |
| PD57-1-1260-TMCL | 30-0313 |
| PD57-2-1260-TMCL | 30-0314 |
| PD60-3-1260-TMCL | 30-0315 |
| PD60-4-1260-TMCL | 30-0316 |

Timing

Effective date for firmware release

March 10, 2021