

**Quality Assurance**  
160 Rio Robles  
San Jose, CA 95134

[www.maximintegrated.com](http://www.maximintegrated.com)

- PROCESS CHANGE NOTICE**  
 **PRODUCT CHANGE NOTICE**

**ANALOG DEVICES HEREBY ISSUES NOTIFICATION OF CHANGE THAT MAY AFFECT THE FOLLOWING CATEGORIES:**

<input type="checkbox"/> DESIGN	<input type="checkbox"/> WAFER FAB	<input type="checkbox"/> ASSEMBLY	<input type="checkbox"/> TEST	<input checked="" type="checkbox"/> ELEC/MECH SPECS
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**AFFECTED PRODUCT:**

Ordering P/N: (See PN listing XLS in PCN ZIP file)

<p><b>CHANGE FROM: -</b> Existing firmware revision V1.07 for Trinamic TMC1617-CoE modules</p>	<p><b>CHANGE TO: -</b> New firmware revision V1.08 This firmware introduces the following:</p> <ol style="list-style-type: none"> <li>1) The following object entries were added:             <ol style="list-style-type: none"> <li>a) Within Object 2042h: Velocity Mode Settings:                 <ul style="list-style-type: none"> <li>Sensor_Selection (subindex 5)</li> <li>Velocity_Filter (subindex 6)</li> <li>Velocity_Unit (subindex 7)</li> <li>Motor_Halted_Velocity (subindex 8)</li> </ul> </li> <li>b) Sensor_Selection (subindex 5) within Object 2043h: Position Mode Settings</li> </ol> </li> <li>2) Fix the data type of Steps (subindex 2) within Object 2080h: ABN</li> <li>3) Encoder Settings changed from UINT to UDINT</li> <li>4) Default parameters were changed:             <ol style="list-style-type: none"> <li>a) Object 2050h: Motor Type from 0 (no motor) to 3 (Three phase BLDC motor)</li> <li>b) P_Parameter (subindex 1) of the Object 2043h: Position Mode Settings changed from 300 to 50</li> </ol> </li> <li>5) Rework of the implementation of Object 1010h: Store Parameters and Object 1011h: Restore Parameters. PDO configuration can now be stored as part of the "Communication Parameters".</li> <li>6) The internal scaling of the PI regulators P parameter changed, thus after an update a new tuning of the position regulation P parameter is required.</li> <li>7) Implement the Overcurrent flag and Driver Error flag of the Object 2101h.</li> <li>8) Implement Motor Status Flags.</li> <li>9) Implement error LED output handling</li> <li>10) Fix: First position move after power on reset has bad ramp.</li> <li>11) Fix: Some axis parameters have wrong or no limit check.</li> </ol> <p>This change is classified as a major change.</p>
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PCN # 2314

DATE: August 16, 2022

EXPECTED PCN SHIP DATE: August 16, 2022



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JUSTIFICATION: New batches of the modules will be delivered together with this new release of the firmware. Modules already shipped can be updated to this new release of the firmware using the provided firmware update feature of the TMCL-IDE. Prior firmware releases are still available on the corresponding product pages on [www.trinamic.com](http://www.trinamic.com).

Notice that after a firmware update coming from a different firmware version, all previous EERPOM stored parameters will get lost, because the new firmware will apply its default parameter values during first reboot.

This PCN is effective as of 16AUG2022 and is for information only

Part Number:	Manufacturer Part #:
TMCM-1617-CoE	TMC-11-0044

TRACEABILITY: Analog Device maintains full traceability by device marking, packaging labels and shipment documents.

Analog Devices's Change Notification System is designed to keep our customer base apprised of major product, manufacturing, or facility improvements.

*Nasser Ali Chaouche*

Nasser AliChaouche / PCN Coordinator

For further information, please contact either of the people listed below.

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