

# RELEASEnotes

## TIM-EC: Torque Interface Module - EtherCAT

Thank you for choosing HBM's torque interface module TIM-EC.

Your feedback is important for HBM. If you encounter any problems or suggestions to improve the TIM-EC interface module, please let us know.

You can contact our team of support engineers directly at <http://www.hbm.com/support>

Please always use the latest firmware version, available on HBM.com's download section: <https://www.hbm.com/en/5577/tim-pnec-profinet-and-ethercat-torque-interface-module/>

### Version Overview – TIM-EC

Product name: TIM-EC

Patch: Add low pass filter 20Hz, 50Hz, 200Hz and 500Hz for torque and speed channel. Sign offset correction fixed

Version: [1.V51](#)

XML/ESI-file: [1V11](#)

Date: 01.08.2019

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Product name: TIM-EC

Patch: Add progress bar for firmware update. Add additional transducer type identification. Invalid correction factor in frequency mode while using table function in approximation setup fixed

Version: [1.V4](#)

XML/ESI-file: [1V11](#)

Date: 22.01.2018

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Product name: TIM-EC

Patch ESI-file: Approximation Nm/Nm and Nm/Hz. Correction slope for frequency input Implementation of CASMA (Crank Angle Synchronous Moving Average) -filter.

Version: [1.V3](#)

XML/ESI-file: [1V11](#)

Date: 01.08.2016

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Product name: TIM-EC

Patch ESI-file: Change measuring values Torque, Speed, Angle, Power bit size 32 into type DINT. ESI-file 1V11 mandatory for TwinCAT 3.

Version: [1.V2](#)

XML/ESI-file: [1V11](#)

Date: 25.08.2014

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Product name: TIM-EC

Patch: Intercommunication TIM to TIM Approximation / correction table for full and partial range. Input mode / frequency input

Version: [1.V2](#)

XML/ESI-file: [1V10](#)

Date: 05.08.2014

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Product name: TIM-EC

Patch: Interrupt handling UDP communication. Approximation input slope.

Version: [1.V1](#)

XML/ESI-file: [1V10](#)

Date: 20.06.2013

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Product name: TIM-EC

Version: [1.V0](#)

XML/ESI-file: [1V10](#)

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**\* The first Firmware Release for the TIM-EC amplifier was version 1.V0**

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**Please always use the latest firmware and software version, available on HBM.com's download section: → Sensors → Torque Sensors → TIM-PN/EC**

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