

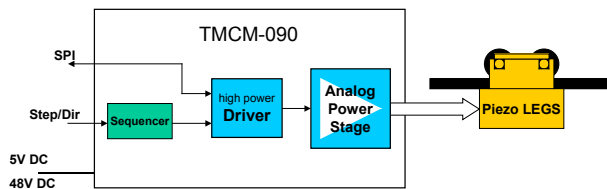
# TMCM-090

**1-Axis  
Piezo Motor Driver  
3kHz / 48V**

**INFO** The TMCM-090 is a compact piezo motor driver module for high precision and highly dynamic piezo axis. It is specially designed for four phase piezo motors, like the PIEZO MOTOR „Piezo Legs“. It can be combined with the driver-less modules TMCM-301 or TMCM-302 or with any step/direction controller. The TMCM-323 can be added for encoder feedback. Its small size makes it an optimum solution for integration on any user board. The board can be connected to a baseboard or customized electronics with a pin connector. Applications are optical and analytical instruments. Its high microstep resolution leads to a linear motor resolution of about 2nm per microstep.

**MAIN CHARACTERISTICS**

- ELECTRICAL DATA**
  - up to 3 kHz cont. fullstepping rate (400nF load)
  - 48V DC motor supply voltage
  - 5V DC logic supply voltage
- SUPPORTED MOTORS**
  - Piezo Legs four phase motor
- INTERFACE**
  - Step / Direction input (TTL/CMOS signal)
  - SPI™ interface
- FEATURES**
  - up to 2048 times microstepping for highest motor precision
  - supports four different waveforms: omega564, sine1585, Rhomb, Rhomb F
  - low EME design for the ease of use
- OTHER**
  - the module is pin compatible to the TMCM-035, and can be used on a baseboard designed for the TMCM-035
  - 68 pin connector carries all signals
  - RoHS compliant
  - Size: 80 x 50 mm<sup>2</sup> (credit card)



ORDER CODE	DESCRIPTION
<b>TMCM-090 (-option)</b>	1-axis piezo motor driver 3kHz / 48V
<b>Related products:</b>	BB-035, BB-301, BB-100
<b>OPTIONS</b>	
<b>H</b>	Horizontal pin connector (standard)
<b>V</b>	Vertical pin connector (on request)