

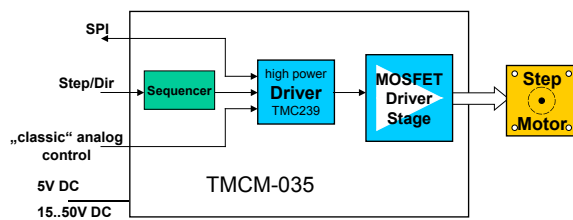
TMCM-035

**1-Axis
Step / Direction or SPI
Driver
3.5A / 48V**

INFO The TMCM-035 is a compact motor driver module for highly dynamic or high-torque axis. It can be combined with the driver-less modules TMCM-301 or TMCM-302, or with any step / direction controller. Its small size and low power dissipation, together with the variety of three different control interfaces, make 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 consumer and industrial controls, CNC power stages, lab automatization, robotics, pick- and place machines.

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
 - up to 3.5A RMS coil current (5A peak)
 - 14V to 50V DC motor supply voltage
 - 5V DC logic supply voltage
- SUPPORTED MOTORS**
 - two-phase bipolar motors with 0.3A to 3.5A coil current
- INTERFACE**
 - Step / Direction input (TTL/CMOS signal)
 - SPI™ interface
 - classical analog interface
- FEATURES**
 - up to 64 times microstepping via SPI
 - 8, 16, 32 or 64 microstep resolution via step / direction interface (32 and 64 microsteps with new version V2.0), high resolution via analog control
 - motor current setting via internal and / or external resistors
 - up to 245kHz microstep frequency
 - TRINAMIC driver technology: No heatsink required
 - StallGuard™ optional for SPI operation
 - standby current reduction programmable
 - "mixed-decay" mode for good microstep performance mode
 - low EMC design for ease of use
- OTHER**
 - 68 pin connector carries all signals
 - RoHS compliant
 - size: 80 x 50 mm² (credit card)



ORDER CODE	DESCRIPTION
TMCM-035/SG (-option)	1-axis driver 3.5A / 50V with StallGuard™ (V2.0)
Related products	BB-035, BB-301, BB-301S, BB-100
OPTIONS	
H	Horizontal pin connector (standard)
V	Vertical pin connector (on request)