

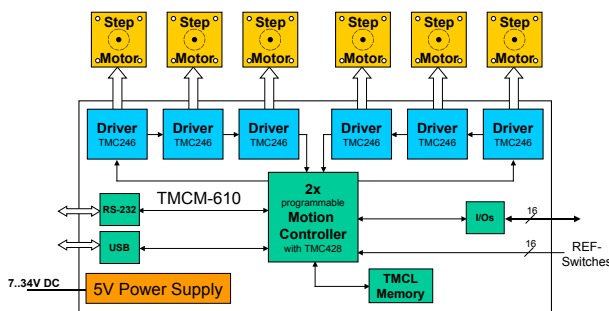
TMCM-610

**6-Axis
Controller / Driver
1.1A / 34V**

INFO The TCMC-610 is a six axis 2-phase stepper motor controller and driver module. It provides a complete single board motion control solution at low cost. Using the integrated additional I/Os it even can do complete system control applications. The motors and switches can be connected easily with screw terminals. The connection of the multi purpose I/Os can be done via a dual-in-line pin connector. The TCMC-610 comes with the PC based software development environment TMCL-IDE. Using predefined TMCL (Trinamic Motion Control Language) high level commands like „move to position“ or „constant rotation“ rapid and fast development of motion control applications is guaranteed. The TCMC-610 can be controlled via the USB or RS-232 interface. Communication traffic is kept very low since all time critical operations, e.g. ramp calculation are performed on board. A user TMCL program can be stored in the on board EEPROM for stand-alone operation. The firmware of the module can be updated via the serial interface. With the stallGuard™ feature it is possible to detect overload and stall of the motor.

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
 - up to 1.1A coil current RMS (1.5A peak)
 - 7V to 34V supply voltage
- SUPPORTED MOTORS**
 - two-phase bipolar motors with 0.3A to 1.1A coil current
- INTERFACE**
 - RS-232 and USB host interface
 - inputs for reference and stop switches
 - general purpose analog and digital I/Os
- FEATURES**
 - up to 16 times microstepping
 - memory for 2048 TMCL commands
 - automatic ramp generation in hardware
 - on the fly alteration of motion parameters (e.g. position, velocity, acceleration)
 - stallGuard™ for sensorless stall detection
 - full step frequencies up to 20kHz
 - dynamic current control
 - TRINAMIC driver technology: no heatsink required
- SOFTWARE**
 - stand-alone operation using TMCL or remote controlled operation
 - PC-based application development software TMCL-IDE included
- OTHER**
 - pluggable / screw terminal connectors
 - RoHS compliant
 - size: 160 x 120 mm



ORDER CODE	DESCRIPTION
TMCM-610/SG	6-axis controller / driver module 1.1A / 34V with stallGuard™