

TMCM-1021

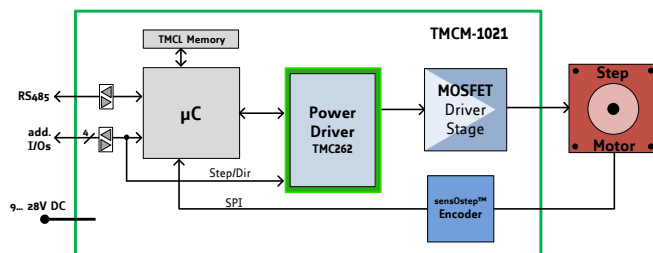
1-Axis
Motor Mountable
28mm | NEMA11
Controller / Driver
0.7A / 24V
RS485 Interface

INFO The TCMC-1021 is an intelligent stepper motor controller/driver module featuring the new outstanding coolStep™ technology for sensorless load dependent current control. This allows energy efficient motor operation. With the advanced stallGuard2™ feature the load of the motor can be detected with high resolution. The module is designed to be mounted directly on a 28mm flange QMot stepper motor. It converts the motor into a compact mechatronic device with serial bus oriented or standalone control.

The PC based software development environment TMCL-IDE for the Trinamic Motion Control Language (TMCL™) can be downloaded free of charge from the TRINAMIC website. Predefined high level TMCL commands guarantee a rapid development of motion control applications. Communication traffic is kept very low since all time critical operations, e.g. ramp calculation are performed onboard.

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
 - 24 V DC (nom.) supply voltage
 - up to 0.7A RMS coil current
- SUPPORTED MOTORS**
 - two-phase bipolar stepper motors
 - mountable on QMot motors (28mm/ NEMA11)
- INTERFACE**
 - RS485
 - step&direction interface
 - inputs for ref. & stop switches
 - general purpose I/Os
- FEATURES**
 - up to 256 times microstepping
 - memory for 876 TMCL™ commands
 - stallGuard2™ sensorless load detection
 - coolStep™ sensorless load dependent current control
 - microPlyer™ 16 to 256 times microstepping interpolation
 - integrated absolute sensOstep™ encoder with 1024 pps.
 - automatic ramp generation in hardware
 - on the fly alteration of motion parameters
- SOFTWARE**
 - standalone or remote controlled operation
 - PC-based (Windows) application development software TMCL-IDE downloadable
- OTHER**
 - pluggable JST connectors
 - RoHS compliant
 - size: 28 x 28 mm²



ORDER CODE	DESCRIPTION
TMCM-1021	1-axis controller / driver module 0.7A / 24V
TMCM-1021-CABLE	Cable loom including all necessary cables (single ended)
Related products:	QMot motor QSH2818