

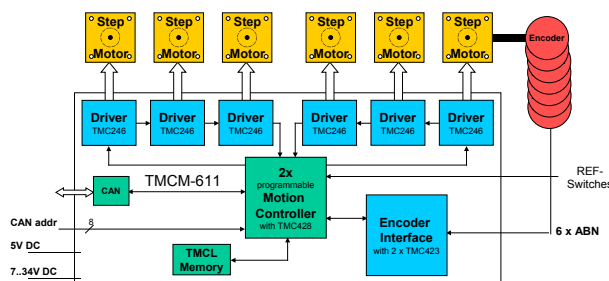
# TMCM-611

**6-Axis  
Controller / Driver  
1.1A / 34V  
with Encoder Inf.  
for 19" Rack**

**INFO** The TMCM-611 is a six axis 2-phase stepper motor controller and driver module for mounting in a 19 inch rack. It provides optional encoder feedback for every motor. The module allows a very high density multi axis control solution at aggressive pricing. The motors and encoders are connected directly via the front panel using 15 pin Mini DSUB connectors. An integrated seven segment status display and two status outputs on the back plane connector allow for quick diagnostics. The TMCM-611 comes with the PC based software development environment TMCL-IDE. It can be controlled via its CAN interface. 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. Communication traffic is kept very low since all time critical operations 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 CAN 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 (plus optional encoder)
- INTERFACE**
  - CAN or RS-485 interface via backplane, 8 address bits set via backplane
  - inputs for reference and stop switches
  - incremental encoder (2 or 3 channel) single ended / filtered inputs
- FEATURES**
  - up to 78 axis in one rack (using one busconnector board)
  - integrated display shows error / user status information
  - up to 16 times microstepping
  - memory for 2048 TMCL commands
  - automatic ramp generation in hardware
  - on the fly alteration of motion parameters
  - stallGuard™ sensorless stall detection
  - dynamic current control
- SOFTWARE**
  - stand-alone operation using TMCL or remote controlled operation
  - PC-based application development software TMCL-IDE included
- OTHER**
  - Mini DSUB 15 connectors combined for motor and encoder, 64 pin for backplane
  - RoHS compliant
  - size: 6U (6HE), 4TE



ORDER CODE	DESCRIPTION
TMCM-611/SG-CAN	6-axis controller / driver module 1.1A / 34V with stallGuard™ and CAN
TMCM-611/SG-485	6-axis controller / driver module 1.1A / 34V with stallGuard™ and RS-485
<b>Related products:</b>	BB-611-1, BB-611-2