

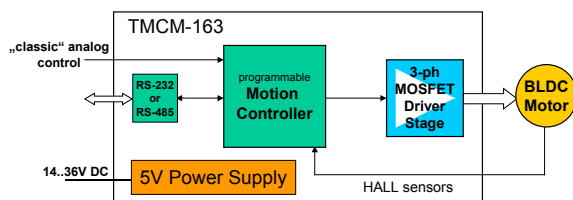
TMCM-163

**1-Axis Motor Mounted
BLDC Controller / Driver
12A / 38V**

INFO The TCMC-163 is a controller / driver module for general brushless DC motor applications. It integrates velocity and torque control as well as a hall sensor based positioning mode. The position resolution depends on the motor, i.e. a standard 8 pole motor gives a motor axis resolution of 15 degrees. The module can be used in stand alone operation (analog voltage) or remote controlled (TMCL) via RS-232 or RS-485 interfaces (ordering option). Its small form factor (43 x 43 x 20 mm³) allows for mounting directly at the motor. The TCMC-163 fits perfectly to the QBL4208 BLDC motors.

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
 - up to 12A coil current (contact to cooling plane might be required using gap pad)
 - 14V to 38V motor supply voltage
- SUPPORTED MOTORS**
 - three phase BLDC motors with hall sensors from a few watts up to 360W
 - velocity up to 100,000 rpm (el. field)
- INTERFACE**
 - RS232 or RS485 host interface
 - analog and digital control inputs
- FEATURES**
 - constant velocity drives, constant torque drives or positioning
 - on the fly alteration of motion parameters (e.g. position, velocity, acceleration)
 - high efficiency, low power dissipation
 - integrated protection: overload / overtemperature
- SOFTWARE**
 - stand-alone operation (analog voltage) or remote controlled operation (TMCL)
 - PC-based demonstration software allows setting of all parameters
- OTHER**
 - pluggable connectors for interface
 - flat connectors for motor and supply
 - RoHS compliant
 - size: 43 x 43 x 20 mm³ (two stacked PCBs)



ORDER CODE	DESCRIPTION
TMCM-163 (-option) V2	1-axis BLDC controller / driver module 12A / 38V
TMCM-163-CABLE	Cable loom for TMCM-163
Related products:	QMot QBL 4208
OPTIONS	
232	RS-232 interface
485	RS-485 interface