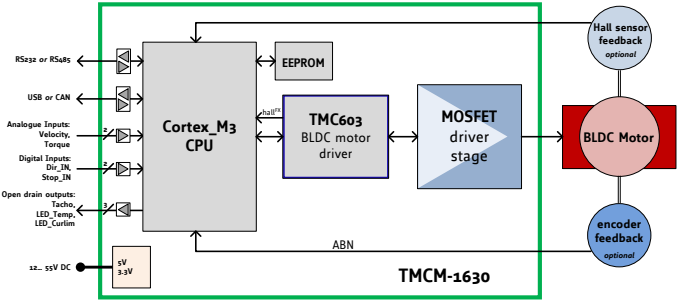


INFO The TCMC-1630 is an intelligent controller / driver solution for brushless DC motor applications.

It supports block commutation with hall sensors as well as sine commutation with incremental encoder. PTMCM-1630 can be used in stand alone operation or remote controlled via serial interface (RS-232, RS-485, CAN or USB) using the Trinamic Motion Control Language TMCL™.

Its small form factor (50 x 92 mm²) allows for integration onto a user board as a plug-on module or for panel mounting, by connecting flat ribbon cables to the two 2x13 2.54mm standard header connectors. Multi-axis drives can be easily realized by integrating multiple modules on one baseboard. A baseboard is available (BB-1630).



TMCM-1630

1-Axis
BLDC Controller / Driver
10A / 48V
with Encoder Interface

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
 - 12V to 48V DC supply voltage
 - up to 10A RMS coil current
- SUPPORTED MOTORS**
 - three phase Brushless DC motors
- INTERFACE**
 - RS-232 or CAN host interface (-zC option)
 - RS-485 or USB host interface (-4U option)
 - analog and digital control inputs
 - hall sensor input
 - ABN encoder input
- FEATURES**
 - memory for 2048 TMCL commands
 - hallFX™
 - sine or block commutation
 - current regulation
 - positioning
 - high efficiency, low power dissipation
 - integrated protection
- SOFTWARE**
 - stand-alone operation using TMCL™ or remote controlled operation
 - PC-based application development software TMCL-IDE available
- OTHER**
 - downwards compatible to TMCM-160
 - two 2-row 2.54mm connectors
 - RoHS compliant
 - Size: 50 x 92 mm²

ORDER CODE	DESCRIPTION
TMCM-1630-2C	1-axis controller / driver module 10A / 48V (RS-232 & CAN host interface)
TMCM-1630-4U	1-axis controller / driver module 10A / 48V (RS-485 & USB host interface)
BB-1630	Baseboard for the TMCM-1630 and TMCM-160 BLDC controller and driver
Related products:	QMot motors QBL42008

