

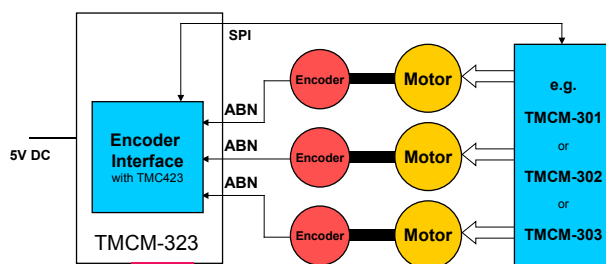
# TMCM-323

**3-Axis Encoder Interface with SPI**

**INFO** The TMCM-323 is a triple axis encoder interface module. It extends the three-axis motion control modules for closed loop operation. With its very small size it is dedicated to embedded applications. The board can be connected to a baseboard or to customized electronics with a pin connector. The TMCM-323 interfaces the 3-axis TCM modules TMCM-301, TMCM-302 or TMCM-303 via SPI. The TMCM-323 contains three real time counters for the incremental encoders so that the actual position data is available without software timing problems.

**MAIN CHARACTERISTICS**

- ELECTRICAL DATA**
  - 5V DC logic supply voltage
- SUPPORTED ENCODERS**
  - two or three channel encoders (differential or TTL/CMOS)
- INTERFACE**
  - SPI to host processor
- FEATURES**
  - resolution option adapts encoder resolution to motor microstep resolution in fast hardware
  - extends TMCM-301, TMCM-302 or TMCM-303 for position feedback (already integrated in the operating system)
  - encoder frequencies up to 4M count/s
  - N-channel event can snapshot encoder counter
  - 24 bit encoder counter resolution
- SOFTWARE**
  - no additional SW required
- OTHER**
  - 68 pin connector carries all signals
  - RoHS compliant
  - size: 80 x 50 mm<sup>2</sup>



ORDER CODE	DESCRIPTION
<b>TMCM-323 (-option)</b>	3-axis Encoder
<i>Related products:</i>	<i>BB-323</i>
<b>OPTIONS</b>	
<b>H</b>	Horizontal pin connector (standard)
<b>V</b>	Vertical pin connector (on request)