

PIC32 MK MCM Motor Control DIM

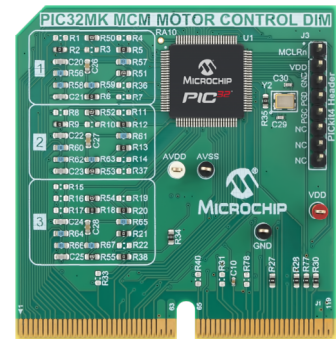
EV49S83A

10/22/2026

For the most up-to-date information, visit [mouser.com](https://www.mouser.com) or the manufacturer's website.

DESCRIPTION

Microchip Technology EV49S83A PIC32 MK MCM Motor Control DIM features a 100-pin TQFP 32-bit PIC32MK MCM microcontroller, part of the PIC32MK family. The PIC32MK MCM integrates on-chip op amps and the DIM supports both on-chip and inverter board-based current feedback implementations. This MCU is a mid-size device that supports up to 2 PMSM-type motors and CAN-FD. The DIM is not compatible with the older MCLV-2 [DM330021-2] or MCHV [DM330023-2 or DM330023-3] PIM-based inverter boards. Typical applications include Industrial Internet of Things (IIoT), motor control, automotive, and industrial control.



FEATURES

- 120-pin connector supports higher-pin-count packages
- DIM has reduced the socketing insertion force
- Keyed design ensures correct board orientation
- Provides support for the PIC32MK MCM series MCU
- Supports both on-chip and board-mounted op amps for motor current feedback

APPLICATIONS

- Industrial Internet of Things (IIoT)
- Automotive
- Motor control
- Industrial control

MOUSER PART NUMBER

[View Part](#)

To learn more, visit <https://www.mouser.com/en/new/microchip/microchip-ev49s83a-dim/>