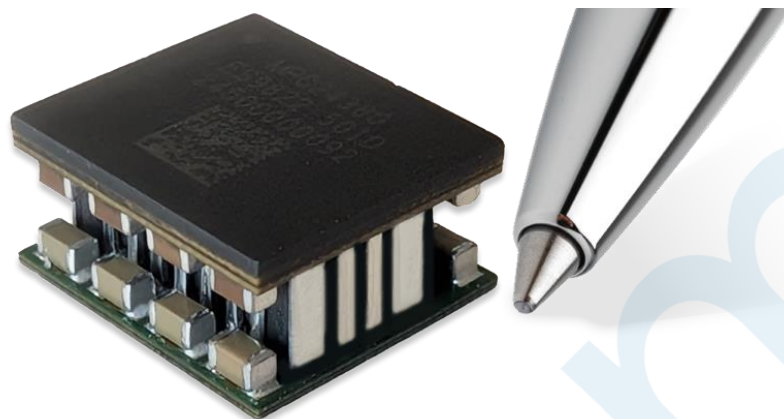


## Highest Power Density Module for AI GPUs & TPUs



### MPC24380-260

260A, Four-Phase Intelli-Module™ with Quiet Switcher™ Technology

#### Pre-Release

##### Description

The MPC24380-260 is a four-phase, non-isolated, high-efficiency, step-down Intelli-Module™ power module with Quiet Switcher™ Technology (QST™). It integrates driver MOSFETs (DrMOS), inductors, and output capacitors to provide high efficiency and a small footprint, which is ideal for server applications.

The MPC24380-260 can achieve up to 260A (65A/phase) of output current ( $I_{OUTx}$ ) across a wide input voltage ( $V_{IN}$ ) range.

The MPC24380-260 offers many features to simplify system design. The device works with tri-state pulse-width modulation (PWM) signal controllers, provides Accu-Sense™ current-sensing to monitor the inductor current ( $I_L$ ), and provides temperature-sensing to report the junction temperature ( $T_J$ ).

The MPC24380-260 is available in an LGA-54 (9mmx10mmx5mm) package.

##### Features & Benefits

- Quiet Switcher™ Technology (QST™) Limits Peak Switching Voltages
- Wide 3V to 8V Input Voltage ( $V_{IN}$ ) Range
- Up to 260A of Continuous Output Current ( $I_{OUTx}$ )
- Accu-Sense™ Current Sense (CS)
- Temperature Sense
- Compatible with Tri-State Pulse-Width Modulation (PWM) Signals
- Over-Current Protection (OCP)
- Over-Temperature Protection (OTP)
- Fault Reporting
- Available in an LGA-54 (9mmx10mmx5mm) Package