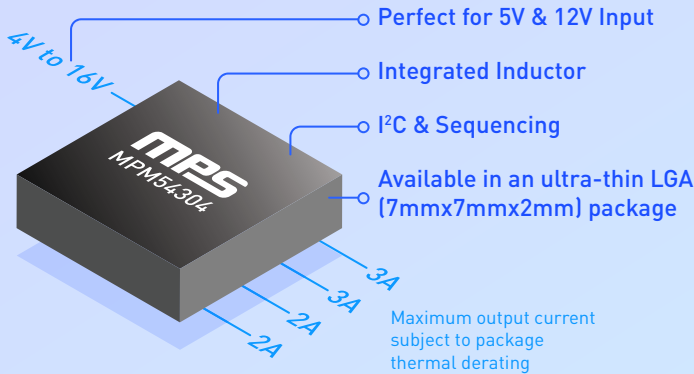


## MPM54304 Quad-Output Power Module



The **MPM54304** is a complete power management module that integrates four high-efficiency, step-down DC/DC converters, inductors, and a flexible logic interface. This COT control DC/DC converter provides fast transient response. Its default 1.5MHz switching frequency greatly reduces external capacitor size. Full protection features include UVLO, OCP, and thermal shutdown.

### Fully Programmable

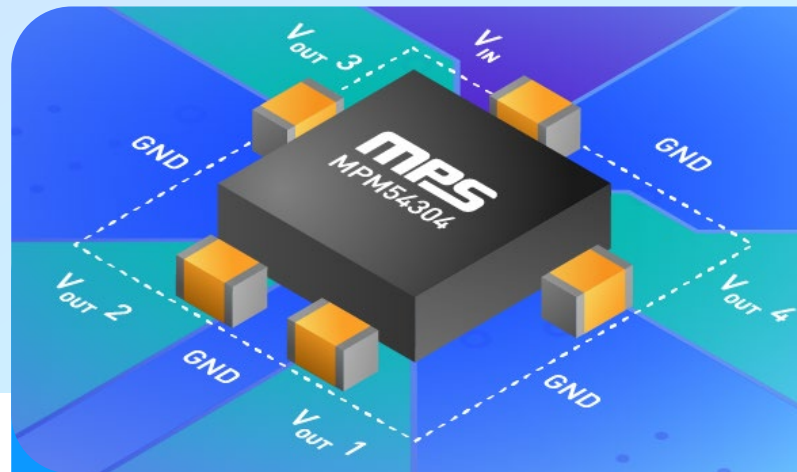
- ✓ Paralleling Channel 1 and 2
- ✓ Paralleling Channel 3 and 4
- ✓ Switching Frequency
- ✓ Output Voltage
- ✓ Over-Current Protection
- ✓ Over-Voltage Protection
- ✓ Power-On and Power-Off Sequencing
- ✓ Forced PWM or Auto-PWM/PFM



The **MPM54304** can support an output voltage range of 0.55V to 7V. The output voltage can be set by the I<sup>2</sup>C or external divider. It also has internal auto-compensation, which eliminates the need for an external compensation network.



The **MPM54304** employs the constant-on-time (COT) control, which provides ultra-fast load transient responses. The required output capacitance is minimized.



Simple Layout Makes Board Design Easy

Ultra-Small Solution Size ~120mm<sup>2</sup>

The **MPM54304** can be programmed and shipped directly from the factory, ready to use on your board!

### System Power Solution

The **MPM54304** supports internal sequencing, making it easy to power multi-rail systems. It offers both start-up and shutdown configurations.

