



STPMIC1L & STPMIC2L

Optimized PMICs for the STM32MP1/2 microprocessors



Compact and efficient power management solutions for embedded MPU applications

The [STPMIC1L](#) and [STPMIC2L](#) are versatile and cost-effective power management ICs tailored for the [STM32MP1](#) and [STM32MP2](#) microprocessor series. Engineered to streamline component for efficiency and reliability, these PMICs provide seamless power delivery to processors and peripherals like DDR memory and flash storage. Featuring advanced features like programmable power sequencing and compact packaging, these devices are ideal for [industrial](#), [smart home](#) and [smart city](#). The STPMIC1L offers 2 buck-converters, while the STPMIC2L has 3 buck converters, both enhance power outputs while ensuring scalability, reduced system costs, and optimized performance for today's embedded systems.

KEY FEATURES

- STPMIC1L
 - 2 high-efficiency buck converters optimized for core and DDR power rails
 - 4 versatile LDOs, including dedicated DDR and USB PHY supplies
 - Compact VFQFPN 28L (4 x 4 x 1.0 mm) package
 - Programmable power sequencing and I²C interface
- STPMIC2L
 - 3 buck converters with advanced EMI reduction and spread spectrum modulation
 - 7 adjustable LDOs,

supporting DDR and USB PHY

- Compact VFQFPN 40L (5.0 x 5.0 x 1.0 mm) package
- Integrated spread spectrum for low EMI

KEY BENEFITS

- Compact design
- High efficiency

Applications



Industrial:

- POS, bar code scanner, smart factory



Smart city:

- EV charger, edge AI, smart building



Smart home:

- Gateway, thermostat, white goods, home automation

Explore our evaluation boards



STEVAL-PMIC1LKV1



STEVAL-PMIC2LKV1

STPMIC1L/2L block diagram

