

M09001



LED Driver and PMIC for TI DLP®/LCoS displays

The M09001 is a highly integrated, high efficiency driver and power management IC designed for LCoS/TI DLP® enabled displays. It provides three SPI or I2C programmable 1.2A LED/laser drivers with >90% efficient buck-boost converter, power management functionalities, including high voltage generators for DMD and LCoS panels. All of these functions are supported while operating from a single Li-Ion cell or 5V adapter. Note: DLP is a registered trademark of Texas Instruments

Features

- Three programmable 1.2A common anode LED/laser drivers
- CSP package
- Li Battery and 5V adapter operation
- Support for both I2C and SPI interface
- Monitor and fault protection features
- Accurate LCoS and DLP panel bias generators
- 1.8 V and programmable 1.0/1.1/1.2/1.5/1.8 V Buck converters and 3.3/2.5V LDO regulator
- Integrated highly efficient buck-boost converter
- Current resolution down to 50uA

Applications

- Head-up and Head mounted displays
- High current laser/LED systems
- LCD/LCoS/DLP portable and embedded pico projectors
- Multicolor LED/laser displays

Specifications

Number of Channels: 3

Part Number	Package
M09001G-11P LED driver and PMIC for HD DLP/LCoS Pico	
M09001G-12 Mobile PicoProjector 1.2A HD SOC	DIE