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M08980



LED Driver and PMIC and stepper motor driver for TI DLP®/LCoS displays

The M08980 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. The M08980 features also an intelligent stepper motor driver programmable through I2C. 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

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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
- Intelligent stepper motor driver
- 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

Datasheet

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Part Number

MACOM

M08980G-11P

1.2A 3CH LED drv with DCDC for emb HD Pi [Inquire](#)

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