

Product Overview

TI DLP 4K Ultra High Definition (UHD) Display Chipset



Developers looking to integrate 4K UHD display technology can use TI DLP chipsets. The chipsets are highly programmable and deliver true 4K UHD resolution. The 4K UHD chipsets come with advanced features such as warping and blending to make sure to have quality products and ease of development.

About the DLP 4K UHD Chipset

The 4K UHD chipset comprises of *multiple digital micromirror devices* (DMD), *digital controllers*, and *power management devices*. These devices can be combined with many different optical and mechanical components to meet a diverse set of performance level requirements. The chipset offers great versatility for numerous applications requiring UHD resolution. The chipset is compatible with virtually any light source, including lasers, laser phosphor and LEDs.

4K UHD Resolution

- The ultra-fast switching speed of the DMD mirrors enables 8.3 million pixels to be displayed
- Resolution delivered is equal to combining four 1080p displays

High Performance Imager

- High ANSI contrast reveals fine lines and details for excellent readability
- Wide range of brightness from 50lm to over 12000 lm addresses different size images and ambient light
- Reliable lifetime performance with no color degradation over time

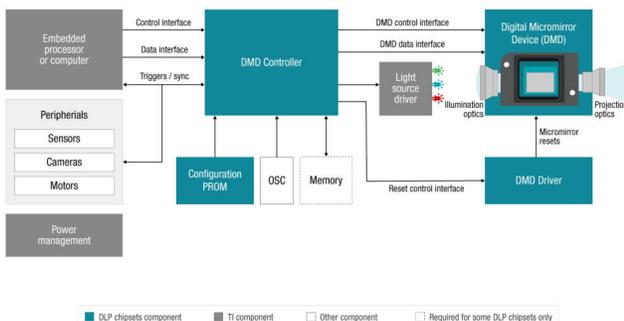


Figure 1. 4K UHD Chipset Design



Figure 2. Home Theater Display Using 4K UHD DLP Technology

Featured Applications

- High end use cases: A remarkably clear, vivid experience for anything from a pro home theater to Cinemas
- Additional use cases: Laser TV's, venue projectors, digital signage, smart lighting, and interactive displays

DLP® Products Third-Party

- DLP® Products work with a variety of *optical module manufacturers* that can provide a compact optical module with the DMD to accelerate development.
- *DLP Products Third-Party* providers have experience with DLP technology. These companies can design or manufacture optics, hardware, software and complementary technology.

Robust Ecosystem

DLP Product Design and Development; Start exploring DLP® technology by finding an evaluation module (EVM) to easily assess a digital micromirror device (DMD) and controller with the latest firmware and software tools. Get fast and reliable technical support directly from *our engineers* to help solve any issues during development. Also, use our extensive partner ecosystem to get your product to market faster.

Visit [DLP products](#) for more information.

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