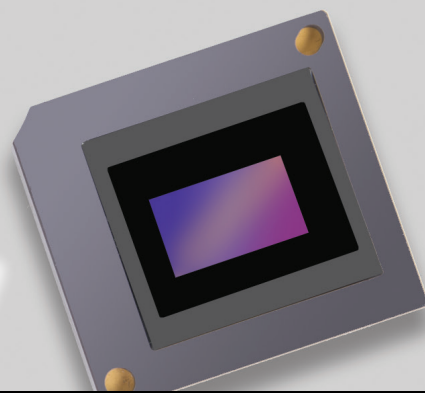


TI DLP® 4K Ultra High Definition (UHD) Display Chipset

Helping to deliver high ANSI contrast and perfect convergence for sharp, high quality 4K UHD images



Developers looking to integrate 4K UHD display technology can utilize the Texas Instruments DLP 0.66-inch 4K UHD chipset. Highly programmable and delivering full 4K resolution, the chipset enables numerous display solutions, including: laser TV, home theater, education and corporate projectors, digital signage, smart lighting and more.

About the DLP 4K UHD chipset

The chipset consists of the DLP660TE digital micromirror device (DMD), DLPC4422 digital controller, and DLPA1000 power management device. 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 needing ultra-high definition.



Home theater display using 4K UHD DLP technology

Key benefits

4K UHD resolution	High performance Imager	Flexible technology	Robust ecosystem
<ul style="list-style-type: none"> • Ultra-fast switching speed <ul style="list-style-type: none"> — The fast switching speed of the DMD enables 8.3 million pixels to be displayed on the screen using 4.15 million micromirrors — Resolution delivered is equal to combining four 1080p displays 	<ul style="list-style-type: none"> • High ANSI contrast Reveals fine lines and details for excellent readability • Alignment-free <ul style="list-style-type: none"> — Optical engine designs using a single DLP chip are inherently aligned for perfect convergence, resulting in sharp, detailed images 	<ul style="list-style-type: none"> • High thermal capability <ul style="list-style-type: none"> — Enables numerous display products requiring high brightness solutions • Light source agnostic <ul style="list-style-type: none"> — Compatible with virtually any light source, including lasers, laser phosphor, LEDs and lamps 	<ul style="list-style-type: none"> • Optical modules <ul style="list-style-type: none"> — Production-ready optical modules from third party companies can speed up product development • TI.com support Tools, technical documents and online community available to address technical questions

Production-ready optical modules

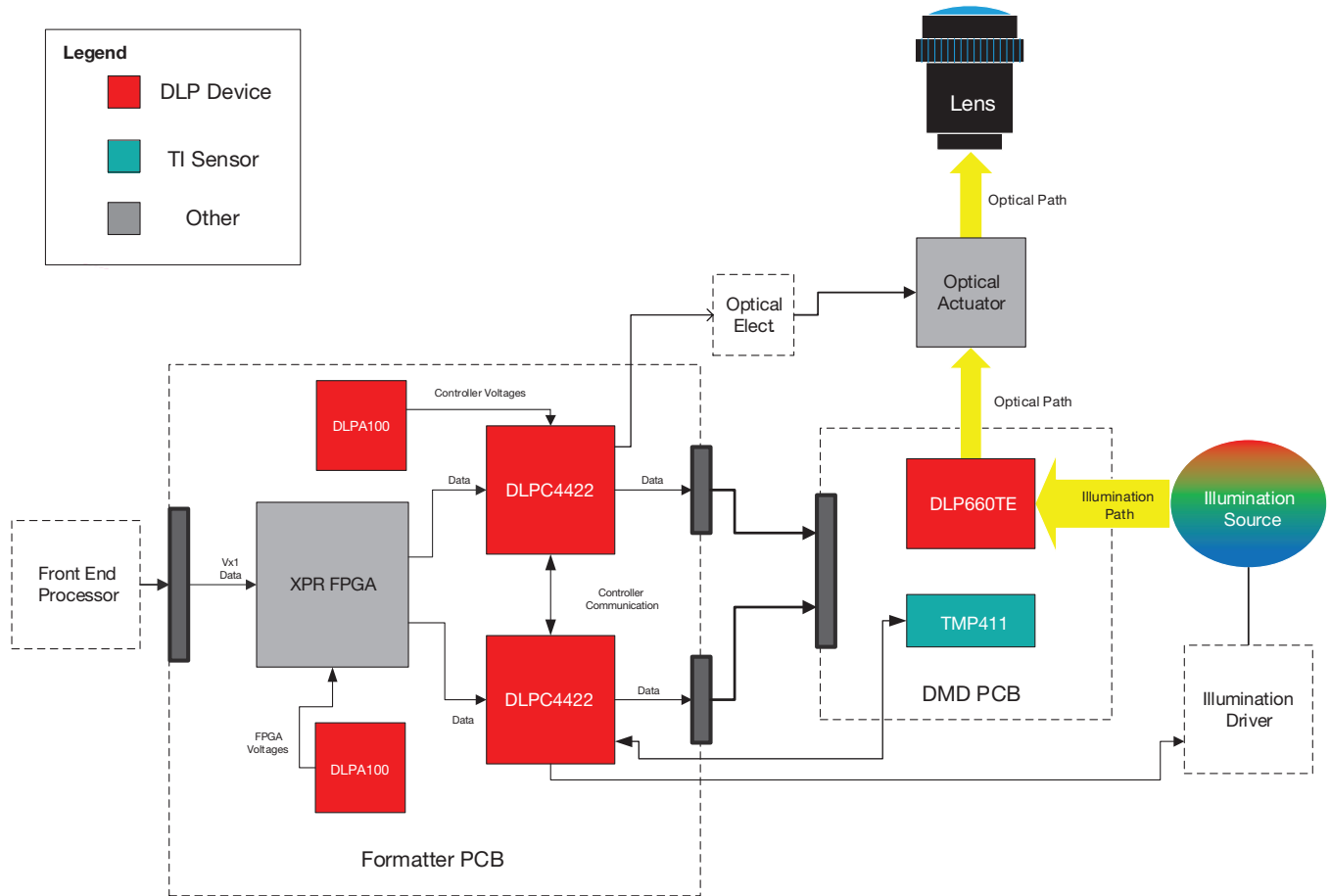
To aid developers, TI maintains a robust ecosystem, including independent companies with expertise in designing and manufacturing production-ready optical modules. An optical module is a compact assembly that includes a DLP DMD, an LED-based illumination source, optics and associated mechanics.

Visit ti.com/dlp4kuhd for more information.



TI DLP 4K UHD technology

Projector design utilizing 4K UHD DLP chipset



[Click here for more information on the 4K UHD chipset.](#)

Visit ti.com/dlp4kuhd for more information.

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