TI DLP® DLPC7540 vs DLPC4422 Chipset

Simpler design, smarter 4K UHD for Broad Market

DLP TEXAS INSTRUMENTS

TEXAS INSTRUMENTS

DLPC7540 is next generation 4K UHD controller, intended for new designs featuring simplified electronics complexity, advanced features and *Solid State* Illumination.

Simplified Complexity

DLPC7540 offers:

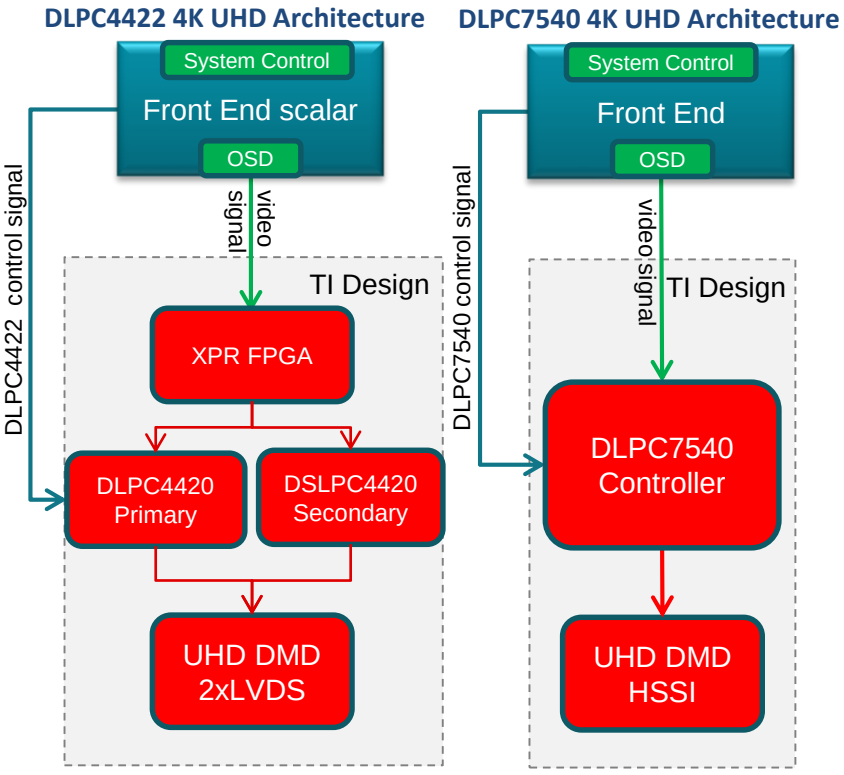
- Reduce size, complexity, and system power
- Eliminates the need for XPR FPGA and dual controller
- Reduced system cost (FPGA/memory, electronics)

Advanced Features

DLPC7540 supports advanced features like advanced 3D Keystone, Warping and Blending.

DLP technology™

Provides the most competitive 4K technology, which is what is expected in high end **smart** boxes. The mirrors give an accurate colorful image with the interactivity customers crave



Features	1xDLPC4422	1xDLPC7540
Maximum Display Resolution 1xController	WUXGA	4K UHD
Number of controllers for 4K UHD resolution	2x	1x
Input Video Interface	10-bit Parallel	V-by-One HS FPD-Link
Maximum Frame Rate	120Hz	240Hz
Color Space	Rec.709 4:4:4 RGB	Rec.2020 4:4:4 RGB YCbCr 4:4:4, 4:2:2,4:2:0
Color Processing	BrillianColor™	BrillianColor™
Processor	ARM9, 133MHz	ARM Cortex R4, 300MHz
OSD	Not Supported	Not Supported
HDR	Not supported	HDR10(PQ) HLG
XPR	4-Position (requires FPGA)	4-Position
Advanced Keystone/Warp	1D Keystone	3D Keystone Warping Blending

Which DMDs does the DLPC7541 support?

- 1-chip HSSI DMDs

What type of design is the DLPC7541 optimized for?

- Laser TV/Smart Projector
- Smart Enterprise Projector

What makes the DLPC7541 different?

- DLPC4422 4K system requires a front end capable of scaling, OSD, and system control capabilities
- DLPC7541 4K systems also support scaling, OSD and system control capabilities within the DLP Controller, allowing support for cheaper front ends.