Texas Instruments DLP® Display & Projection Chipset Selection Guide

This document can help product developers select a DLP chipset for display and projection applications. An overview of all DLP projection and display chipsets is presented first followed by more detailed product information for DLP Pico™ digital micromirror devices (DMDs) as well as DLP Standard DMDs. Product developers interested in DLP technology for advanced light control applications should visit DLP Advanced Light Control Products or visit DLP Automotive Products for automotive qualified devices.

DLP Pico chipsets are designed for display applications that demand small form factor and low power consumption. A few example applications are smartphones and tablets, battery-powered pico projectors and mobile smart TVs, augmented reality (AR)/virtual reality (VR) wearable displays, and smart home displays.

### DLP Pico chipsets

**Designed for small form factor, low power display applications**

<table>
<thead>
<tr>
<th>Chipset (DMD part number)</th>
<th>Micromirror array size (diagonal)</th>
<th>Display resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLP2000</td>
<td>0.2”</td>
<td>640x360 (nHD)</td>
</tr>
<tr>
<td>DLP2010</td>
<td>0.2”</td>
<td>854x480 (WVGA)</td>
</tr>
<tr>
<td>DLP230GP</td>
<td>0.23”</td>
<td>960x540 (qHD)</td>
</tr>
<tr>
<td>DLP230KP</td>
<td>0.23”</td>
<td>1280x720 (720p)</td>
</tr>
<tr>
<td>DLP230NP</td>
<td>0.23”</td>
<td>1920x1080 (1080p)</td>
</tr>
<tr>
<td>DLP230NP</td>
<td>0.23”</td>
<td>1920x1080 (1080p)</td>
</tr>
<tr>
<td>DLP3010</td>
<td>0.3”</td>
<td>1280x720 (720p)</td>
</tr>
<tr>
<td>DLP3310</td>
<td>0.33”</td>
<td>1920x1080 (1080p)</td>
</tr>
<tr>
<td>DLP4501</td>
<td>0.45”</td>
<td>1280x800 (WUXGA)</td>
</tr>
<tr>
<td>DLP4710</td>
<td>0.47”</td>
<td>1920x1080 (1080p)</td>
</tr>
<tr>
<td>DLP470TP</td>
<td>0.47”</td>
<td>3840x2160 (4K UHD)</td>
</tr>
</tbody>
</table>

DLP Standard chipsets are designed for display applications that demand the highest brightness and performance. Example applications include laser TV, digital signage, and business and education displays.

### DLP Standard chipsets

**Designed for high brightness, large screen size display applications**

<table>
<thead>
<tr>
<th>Chipset (DMD part number)</th>
<th>Micromirror array size (diagonal)</th>
<th>Display resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLP470NE</td>
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<td>DLP470TE</td>
<td>0.47”</td>
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<tr>
<td>DLP480RE</td>
<td>0.48”</td>
<td>1920x1200 (WUXGA)</td>
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<tr>
<td>DLP550UE</td>
<td>0.55”</td>
<td>1024x768 (XGA)</td>
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<td>DLP650LE</td>
<td>0.65”</td>
<td>1280x800 (WXGA)</td>
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<tr>
<td>DLP650NE</td>
<td>0.65”</td>
<td>1920x1080 (1080p)</td>
</tr>
<tr>
<td>DLP660TE</td>
<td>0.66”</td>
<td>3840x2160 (4K UHD)</td>
</tr>
</tbody>
</table>
DLP Pico Chipsets
Selection guide for display applications

This selection guide can be used to compare DLP Pico chipsets for display applications. A DLP Pico chipset consists of two types of components: a DMD and a display controller. Most DLP Pico chipsets are also supported by a dedicated power management IC (PMIC) with an integrated illumination driver. Related technical resources include Getting Started with TI DLP® Display Technology, TI DLP® System Design: Brightness Requirements and Tradeoffs, and TI DLP® Pico™ System Design: Optical Module Specifications.

<table>
<thead>
<tr>
<th>DMD part number</th>
<th>Ultra-Mobile, Ultra-Low Power (&lt;300 lumens)</th>
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<tbody>
<tr>
<td>DLP2000</td>
<td>DLP2010</td>
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<tr>
<td>DLP230GP</td>
<td>DLP230KP</td>
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<td>DLP230NP</td>
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### DMD specifications

<table>
<thead>
<tr>
<th>Micromirror array diagonal size</th>
<th>DLP2000</th>
<th>DLP2010</th>
<th>DLP230GP</th>
<th>DLP230KP</th>
<th>DLP230NP</th>
<th>DLP3010</th>
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<tbody>
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<td>0.23&quot;</td>
<td>0.23&quot;</td>
<td>0.31&quot;</td>
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<td>0.23&quot;</td>
<td>0.23&quot;</td>
<td>0.31&quot;</td>
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<td>Square</td>
<td>Square</td>
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<tr>
<td>DMD package size (mm)</td>
<td>14.1x5.0x3.6</td>
<td>15.9x5.3x4.0</td>
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<td>18.2x7.0x3.8</td>
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<td>Illumination direction</td>
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<td>Side</td>
<td>Side</td>
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<td>Side</td>
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### Typical optical module specifications (from 3rd party optical module manufacturers)

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<tr>
<th>Typical brightness (lumens)²</th>
<th>Up to 50</th>
<th>Up to 150</th>
<th>Up to 200</th>
<th>Up to 200</th>
<th>Up to 200</th>
<th>Up to 300</th>
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</thead>
<tbody>
<tr>
<td>Typical image diagonal size³</td>
<td>Up to 30&quot;</td>
<td>Up to 50&quot;</td>
<td>Up to 60&quot;</td>
<td>Up to 60&quot;</td>
<td>Up to 60&quot;</td>
<td>Up to 80&quot;</td>
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<td>Typical illumination power⁴</td>
<td>1-3W</td>
<td>1-10W</td>
<td>1-10W</td>
<td>1-10W</td>
<td>1-10W</td>
<td>1-20W</td>
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<td>Yes</td>
<td>Coming Soon</td>
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### Display controller specifications

<table>
<thead>
<tr>
<th>Controller part # and package size</th>
<th>DLPC2607 (7x7mm)</th>
<th>DLPC3430 (7x7mm)</th>
<th>DLPC3435 (13x13mm)</th>
<th>DLPC3432 (7x7mm)</th>
<th>DLPC3434 (7x7mm)</th>
<th>DLPC3436 (7x7mm)</th>
<th>DLPC3438 (13x13mm)</th>
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<tr>
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<td>Up to 60Hz</td>
<td>Up to 240Hz</td>
<td>120 Hz</td>
<td>60 Hz</td>
<td>60 Hz</td>
<td>Up to 120Hz</td>
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<tr>
<td>DLP IntelliBright™ Algorithms</td>
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<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
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<tr>
<td>Keystone correction (1D vertical)</td>
<td>•</td>
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<td>•</td>
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<td>Evaluation Module (EVM)</td>
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<td>Order on TI.com</td>
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<tr>
<td>TI Reference Design</td>
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<td>TIDA-00325</td>
<td>TIDA-080002</td>
<td>TIDA-01571</td>
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<td>$18.42</td>
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### PMIC part numbers, illumination drive current, and compatibility

<table>
<thead>
<tr>
<th>PMIC part numbers, illumination drive current, and compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLPA1000 (up to 1A)</td>
</tr>
<tr>
<td>DLPA2000 (up to 750mA)</td>
</tr>
<tr>
<td>DLPA2005 (up to 2.4A)</td>
</tr>
<tr>
<td>DLPA3000 (up to 6A)</td>
</tr>
<tr>
<td>DLPA3005 (up to 16A)</td>
</tr>
</tbody>
</table>

### Example applications and recommended chipsets

<table>
<thead>
<tr>
<th>Example applications and recommended chipsets</th>
<th>DLP2000</th>
<th>DLP2010</th>
<th>DLP230GP</th>
<th>DLP230KP</th>
<th>DLP230NP</th>
<th>DLP3010</th>
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<tbody>
<tr>
<td>DLP Signage</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
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<td>Mobile Projector</td>
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<td>Mobile Smart TV</td>
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<td>•</td>
</tr>
<tr>
<td>Smart Speaker</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Smartphone</td>
<td>•</td>
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<td>•</td>
</tr>
<tr>
<td>Tablet: Multimedia</td>
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<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>VR / AR Headsets &amp; Glasses</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

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1. Suggested Resale Price per unit (USD) for BUDGETARY USE ONLY. For higher volume price quotes, prices in local currency or delivery quotes, please contact your local Texas Instruments Sales Office or Authorized Distributor.
2. Brightness is measured out of the projection lens. Estimates are based on illumination technology available as of the publication date of this document. Please read the Brightness requirements and tradeoffs app note to learn more.
3. Typical projected diagonal image sizes assume a minimum image brightness level of 50 nits for a dark room and 80% projection surface reflectivity. The required image brightness and image size will vary depending on ambient light levels. Please read the Brightness requirements and tradeoffs app note to learn more.
4. Illumination power consumption can be adjusted to meet product power consumption constraints. To learn more about optical module specifications, please read TI DLP® Pico™ System Design: Optical Module Specifications.
# DLP Pico Chipsets

**Selection guide for display applications**

This selection guide can be used to compare DLP Pico chipsets for display applications. A DLP Pico chipset consists of two types of components: a DMD and a display controller. Most DLP Pico chipsets are also supported by a dedicated power management IC (PMIC) with an integrated illumination driver. Related technical resources include *Getting Started with TI DLP® Display Technology*, *TI DLP® System Design: Brightness Requirements and Tradeoffs*, and *TI DLP® Pico™ System Design: Optical Module Specifications*.

## DMD specifications

<table>
<thead>
<tr>
<th>DMD part number</th>
<th>Mobile, Low Power (&lt;600 lumens)</th>
<th>Compact High Resolution (&lt;1500 lumens)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="image" alt="DLP3310" /></td>
<td><img src="image" alt="DLP4501" /></td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="DLP4710" /></td>
<td><img src="image" alt="DLP470TP" /></td>
</tr>
</tbody>
</table>

### Micromirror array diagonal size
- **DLP3310**: 0.33”
- **DLP4501**: 0.45”
- **DLP4710**: 0.47”
- **DLP470TP**: 0.47”

### Display resolution
- **DLP3310**: 1920x1080 1080p
- **DLP4501**: 1280x800 WXGA
- **DLP4710**: 1920x1080 1080p
- **DLP470TP**: 3840x2160 4K UHD

### Micromirror pitch
- **DLP3310**: 5.4µm
- **DLP4501**: 7.6µm
- **DLP4710**: 5.4µm
- **DLP470TP**: 5.4µm

### Micromirror orientation
- **DLP3310**: Square
- **DLP4501**: Diamond
- **DLP4710**: Square
- **DLP470TP**: Square

### DMD package size (mm)
- **DLP3310**: 19.3x7.2x3.8
- **DLP4501**: 21.3x11.0x3.3
- **DLP4710**: 24.5x11.0x3.8
- **DLP470TP**: 25.65x16.9x4.1

### Illumination direction
- **DLP3310**: Side
- **DLP4501**: Side
- **DLP4710**: Bottom
- **DLP470TP**: Bottom

### DMD 1ku price
- **DLP3310**: $73.49
- **DLP4501**: $92.00
- **DLP4710**: $148.00
- **DLP470TP**: $178.00

## Typical optical module specifications (from 3rd party optical module manufacturers)

### Typical brightness (lumens)²
- **DLP3310**: Up to 400
- **DLP4501**: Up to 1000
- **DLP4710**: Up to 1500
- **DLP470TP**: Up to 1500

### Typical image diagonal size³
- **DLP3310**: Up to 80”
- **DLP4501**: Up to 120”
- **DLP4710**: Up to 140”
- **DLP470TP**: Up to 140”

### Typical illumination power Consumption
- **DLP3310**: 10-30W
- **DLP4501**: 10-100W
- **DLP4710**: 20-120W
- **DLP470TP**: 20-120W

### Optical modules in production
- **DLP3310**: Yes
- **DLP4501**: Yes
- **DLP4710**: Yes
- **DLP470TP**: Yes

## Display controller specifications

### Controller part # and package size
- **DLP3310**: DLPC3437 (13x13mm) 2 required
- **DLP4501**: DLPC6401 (23x23mm)
- **DLP4710**: DLPC3439 (13x13mm) 2 required
- **DLP470TP**: DLPC6421 (27x27mm) 2 required

### Frame refresh rate
- **DLP3310**: Up to 60Hz
- **DLP4501**: Up to 120Hz
- **DLP4710**: Up to 60Hz
- **DLP470TP**: Up to 60Hz

### DLP IntelliBright™ Algorithms
- **DLP3310**: •
- **DLP4501**: •
- **DLP4710**: •
- **DLP470TP**: •

### Keystone correction (1D vertical)
- **DLP3310**: •
- **DLP4501**: •
- **DLP4710**: •
- **DLP470TP**: •

### Evaluation Module (EVM)
- **DLP3310**: Order on TI.com
- **DLP4501**: Order from 3rd party
- **DLP4710**: Order on TI.com
- **DLP470TP**: Order on TI.com

### TI Reference Design
- **DLP3310**: TIDA-080000
- **DLP4501**: TIDA-00782
- **DLP4710**: TIDA-01226
- **DLP470TP**: TIDA-01226

### Controller 1ku price
- **DLP3310**: $18.42
- **DLP4501**: $20.45
- **DLP4710**: $18.42
- **DLP470TP**: $52.20

## PMIC part numbers, illumination drive current, and compatibility

### DLPA1000 (up to 1A)
- **DLP3310**: Yes
- **DLP4501**: Yes
- **DLP4710**: Yes
- **DLP470TP**: Yes

### DLPA2000 (up to 750mA)
- **DLP3310**: Yes
- **DLP4501**: Yes
- **DLP4710**: Yes
- **DLP470TP**: Yes

### DLPA2005 (up to 2.4A)
- **DLP3310**: Yes
- **DLP4501**: Yes
- **DLP4710**: Yes
- **DLP470TP**: Yes

### DLPA3000 (up to 6A)
- **DLP3310**: Yes
- **DLP4501**: Yes
- **DLP4710**: Yes
- **DLP470TP**: Yes

### DLPA3005 (up to 16A)
- **DLP3310**: Yes
- **DLP4501**: Yes
- **DLP4710**: Yes
- **DLP470TP**: Yes

## Example applications and recommended chipsets

- **DLP Signage**
- **Mobile Projector**
- **Mobile Smart TV**
- **Smart Speaker**
- **Smartphone**
- **Tablet: Multimedia**
- **VR / AR Headsets & Glasses**

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1 Suggested Resale Price per unit (USD) for BUDGETARY USE ONLY. For higher volume price quotes, prices in local currency or delivery quotes, please contact your local Texas Instruments Sales Office or Authorized Distributor.

2 Brightness is measured out of the projection lens. Estimates are based on illumination technology available as of the publication date of this document. Please read the Brightness requirements and tradeoffs app note to learn more.

3 Typical projected diagonal image sizes assume a minimum image brightness level of 50 nits for a dark room and 80% projection surface reflectivity. The required image brightness and image size will vary depending on ambient light levels. Please read the Brightness requirements and tradeoffs app note to learn more.

4 Illumination power consumption can be adjusted to meet product power consumption constraints. To learn more about optical module specifications, please read *TI DLP® Pico™ System Design: Optical Module Specifications*. 
# DLP Standard Chipsets

## Selection guide for display applications

This selection guide compares the DLP Standard chipset portfolio for display applications. A DLP Standard chipset consists of three components: a DMD, a DLP controller, and a dedicated power management IC (PMIC). Some chipsets also require an additional micromirror driver. Related technical resources include Getting Started with TI DLP® Display Technology and TI DLP® System Design: Brightness Requirements and Tradeoffs.

## DMD specifications

<table>
<thead>
<tr>
<th>DMD part number</th>
<th>XGA</th>
<th>WXGA</th>
<th>1080p</th>
<th>WXGA</th>
<th>4K UHD</th>
</tr>
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<tbody>
<tr>
<td>DMD550JE</td>
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<td>DLP650LE</td>
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<td>DLP470NE</td>
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<td>DLP650NE</td>
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<td>DLP660TE</td>
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<table>
<thead>
<tr>
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<th>0.65&quot;</th>
<th>0.47&quot;</th>
<th>0.65&quot;</th>
<th>0.48&quot;</th>
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<tr>
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<td>1024x768</td>
<td>1280x800</td>
<td>1920x1080</td>
<td>1920x1080</td>
<td>1920x1200</td>
<td>3840x2160</td>
<td>3840x2160</td>
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<td>Micromirror pitch</td>
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<td>10.8µm</td>
<td>5.4µm</td>
<td>7.56µm</td>
<td>5.4µm</td>
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<tr>
<td>Micromirror orientation</td>
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<tr>
<td>DMD package size (mm)</td>
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<td>32.2x22.3x2.95</td>
<td>32.2x22.3x3.785</td>
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<td>Bottom</td>
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<td>&gt;1500</td>
<td>&gt;1500</td>
<td>&gt;1500</td>
<td>&gt;1500</td>
<td>&gt;1500</td>
<td>&gt;2000</td>
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<td>Typical image diagonal size</td>
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<td>&gt;80&quot;</td>
<td>&gt;80&quot;</td>
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</table>

## Display controller specifications

### Controller part # and package size

<table>
<thead>
<tr>
<th>Controller part # and package size</th>
<th>DLP4422 (27x27mm)</th>
<th>DLP4422 (27x27mm)</th>
<th>DLP4422 (27x27mm)</th>
<th>DLP4422 (27x27mm)</th>
<th>DLP4422 (27x27mm) 2 required</th>
<th>DLP4422 (27x27mm) 2 required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame refresh rate</td>
<td>Up to 120Hz</td>
<td>Up to 120Hz</td>
<td>Up to 120Hz</td>
<td>Up to 120Hz</td>
<td>Up to 120Hz</td>
<td>Up to 120Hz</td>
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<tr>
<td>Controller power consumption 4</td>
<td>~3.73W</td>
<td>~3.73W</td>
<td>~3.73W</td>
<td>~3.73W</td>
<td>~3.73W</td>
<td>~3.73W</td>
</tr>
<tr>
<td>DLP Brilliant Color™ Algorithms</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Keystone correction (1D vertical)</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Controller 1ku price 1</td>
<td>$60.50</td>
<td>$60.50</td>
<td>$60.50</td>
<td>$60.50</td>
<td>$60.50</td>
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<tr>
<td>PMIC and driver compatibility</td>
<td></td>
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<tr>
<td>DLPA100 (PMIC)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>DLPA200 (Micromirror driver)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

## Example applications and recommended chipsets

- **Laser TV**: • • • • • •
- **Digital signage**: • • • • • •
- **Portable Home Cinema**: • • • • • •
- **Business & education**: • • • • • •
- **Video Conferencing**: • • • • • •
- **Smart Lighting**: • • • • • •

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1. Suggested Resale Price per unit (USD) for BUDGETARY USE ONLY. For higher volume price quotes, prices in local currency or delivery quotes, please contact your local Texas Instruments Sales Office or Authorized Distributor.
2. Brightness is measured out of the projection lens. Estimates are based on illumination technology available as of the publication date of this document. Please read the Brightness requirements and tradeoffs app note to learn more.
3. Typical projected diagonal image sizes assume a minimum image brightness level of 200 nits for a well-lit room and 80% projection surface reflectivity. The required image brightness and image size will vary depending on ambient light levels. Please read the Brightness requirements and tradeoffs app note to learn more.
4. Power consumption of the DLP chipset varies based on media content, input resolution, and frame rate. The specified power consumption assumes full DMD display resolution and 60Hz frame rate.
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