



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**Notification# 20250127004.0**  
**Datasheet for DLP650NE, DLP650TE, DLP651NE, DLP471TE, DLP471NE, DLPC3436**  
**and DLPC3426**  
**Information Only**

**Date:** January 28, 2025

**To:** MOUSER PCN

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team  
SC Business Services

**20250127004.0**  
**Information Only Datasheet**  
**Attachments**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
DLP471TEA0FYN	595-DLP471TEA0FYN
DLP651NEA0FYP	NULL
DLP471NEA0FYN	595-DLP471NEA0FYN
DLP650NEFYE	DLP650NEFYE
DLP650NEFYE	595-DLP650NEFYE
DLPC3426ZVB	NULL

Technical details of this Product Change follow on the next page(s).

<b>PCN Number:</b>	20240127004.0	<b>PCN Date:</b>	January 28, 2025
<b>Title:</b>	Datasheet for DLP650NE, DLP650TE, DLP651NE, DLP471TE, DLP471NE, DLPC3436 and DLPC3426		
<b>Customer Contact:</b>	Change Management team	<b>Dept:</b>	Quality Services
<b>Change Type:</b>	Electrical Specification		

## PCN Details

### Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



**DLP650NE**

DLPS097B – AUGUST 2017 – REVISED JANUARY 2025

#### Changes from Revision A (February 2023) to Revision B (January 2025)

**Page**

• Updated the controller to DLPC4420.....	1
• Added sections SOLID STATE ILLUMINATION and LAMP ILLUMINATION to Recommended Operating Conditions table.....	11
• Expanded and updated table Micromirror Array Optical Characteristics.....	21
• Updated controller to DLPC4420.....	23
• Changed to DLPC4420 Display Controller.....	25
• Updated Micromirror Array Temperature Calculation.....	26
• Updated controller to DLPC4420.....	32
• Updated controller to DLPC4420.....	33
• Updated controller to DLPC4420.....	34
• Updated controller to DLPC4420.....	35
• Updated controller to DLPC4420.....	35
• Updated device nomenclature and markings.....	38
• Added the DLPC4420 controller and link to data sheet.....	39
• Removed link to DMD101.....	39



**DLP650TE**

DLPS186B – MARCH 2021 – REVISED JANUARY 2025

#### Changes from Revision A (May 2022) to Revision B (January 2025)

**Page**

• Added the links to the DLP Products third-party search tools and Getting Started with TI DLP Display Technology.....	1
• Added sections SOLID STATE ILLUMINATION and LAMP ILLUMINATION to Recommended Operating Conditions table.....	6
• Updated Micromirror Array Optical Characteristics Table.....	18
• Updated Micromirror Array Temperature Calculation.....	23
• Added the Micromirror Power Density Calculation section.....	24
• Added the topic Window Aperture Illumination Overfill Calculation.....	26
• Updated the equation to calculate the landed duty cycle.....	27

<b>Changes from Revision A (May 2022) to Revision B (January 2025)</b>	<b>Page</b>
• Updated the controller to DLPC7530 throughout document.....	1
• Added the links to the DLP Products third-party search tools and Getting Started with TI DLP Display Technology.....	1
• Added sections SOLID STATE ILLUMINATION and LAMP ILLUMINATION to Recommended Operating Conditions table.....	7
• Deleted entry Environmental ILL <sub>8</sub> and added Q <sub>AP-ILL</sub> .....	7
• Added figure Window Aperture Illumination Overfill Example.....	7
• Updated Micromirror Array Optical Characteristics Table.....	19
• Updated Micromirror Array Temperature Calculation.....	24
• Added the Micromirror Power Density Calculation section.....	25
• Added the topic Window Aperture Illumination Overfill Calculation.....	27
• Updated the equation to calculate the landed duty cycle.....	28
• Changes to Typical Application re: Laser Phosphor configuration and LED configuration.....	31

<b>Changes from Revision B (April 2022) to Revision C (January 2025)</b>	<b>Page</b>
• Added links to DLP Products third-party search tools, and Getting Started With TI DLP Display Technology... 1	1
• Added sections SOLID STATE ILLUMINATION and LAMP ILLUMINATION to Recommended Operating Conditions table.....	7
• Updated Micromirror Array Optical Characteristics Table.....	18
• Updated Micromirror Array Temperature Calculation.....	23

<b>Changes from Revision B (May 2022) to Revision C (January 2025)</b>	<b>Page</b>
• Added links to DLP Products third-party search tools, and Getting Started With TI DLP Display Technology... 1	1
• Added sections SOLID STATE ILLUMINATION and LAMP ILLUMINATION to Recommended Operating Conditions table.....	7
• Updated Micromirror Array Optical Characteristics Table.....	18
• Updated Micromirror Array Temperature Calculation.....	23

<b>Changes from Revision E (April 2023) to Revision F (November 2024)</b>	<b>Page</b>
• Added FPGA supported features table and updated supported chipsets.....	23
• Added new supported FPGA information.....	25
• Added the FPGA supported input interface table.....	26
• Added the new supported FPGA.....	27
• Replaced image "3D Display Left and Right Frame Timing" with "3D Frame and Signal Timing". Removed MIPI DSI from section. ....	28
• Changed images to match new FPGA information.....	40
• Added new supported FPGA information.....	42
• Added new supported FPGA information.....	42
• Updated missing information for Fast Power-Down.....	43

The datasheet number will be changing.

Device Family	Change From:	Change To:
<a href="#">DLP650NE</a>	DLPS097A	<b><a href="#">DLPS097B</a></b>
<a href="#">DLP650TE</a>	DLPS186A	<b><a href="#">DLPS186B</a></b>
<a href="#">DLP651NE</a>	DLPS210A	<b><a href="#">DLPS210B</a></b>
<a href="#">DLP471TE</a>	DLPS170B	<b><a href="#">DLPS170C</a></b>
<a href="#">DLP471NE</a>	DLPS190B	<b><a href="#">DLPS190C</a></b>
<a href="#">DLPC3436</a> and <a href="#">DLPC3426</a>	DLPS156E	<b><a href="#">DLPS156F</a></b>

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/DLP650NE>

<http://www.ti.com/product/DLP650TE>

<http://www.ti.com/product/DLP651NE>

<http://www.ti.com/product/DLP471TE>

<http://www.ti.com/product/DLP471NE>

<http://www.ti.com/product/DLPC3436>

#### **Reason for Change:**

To accurately reflect device characteristics.

#### **Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):**

No anticipated impact.

#### **Changes to product identification resulting from this PCN:**

None.

#### **Product Affected:**

DLP650NEFYE	DLP650TEA0FYP	DLP651NEA0FYP	DLP471TEA0FYN
DLP471NEA0FYN	DLPC3436CZVB	DLPC3426CZVB	

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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