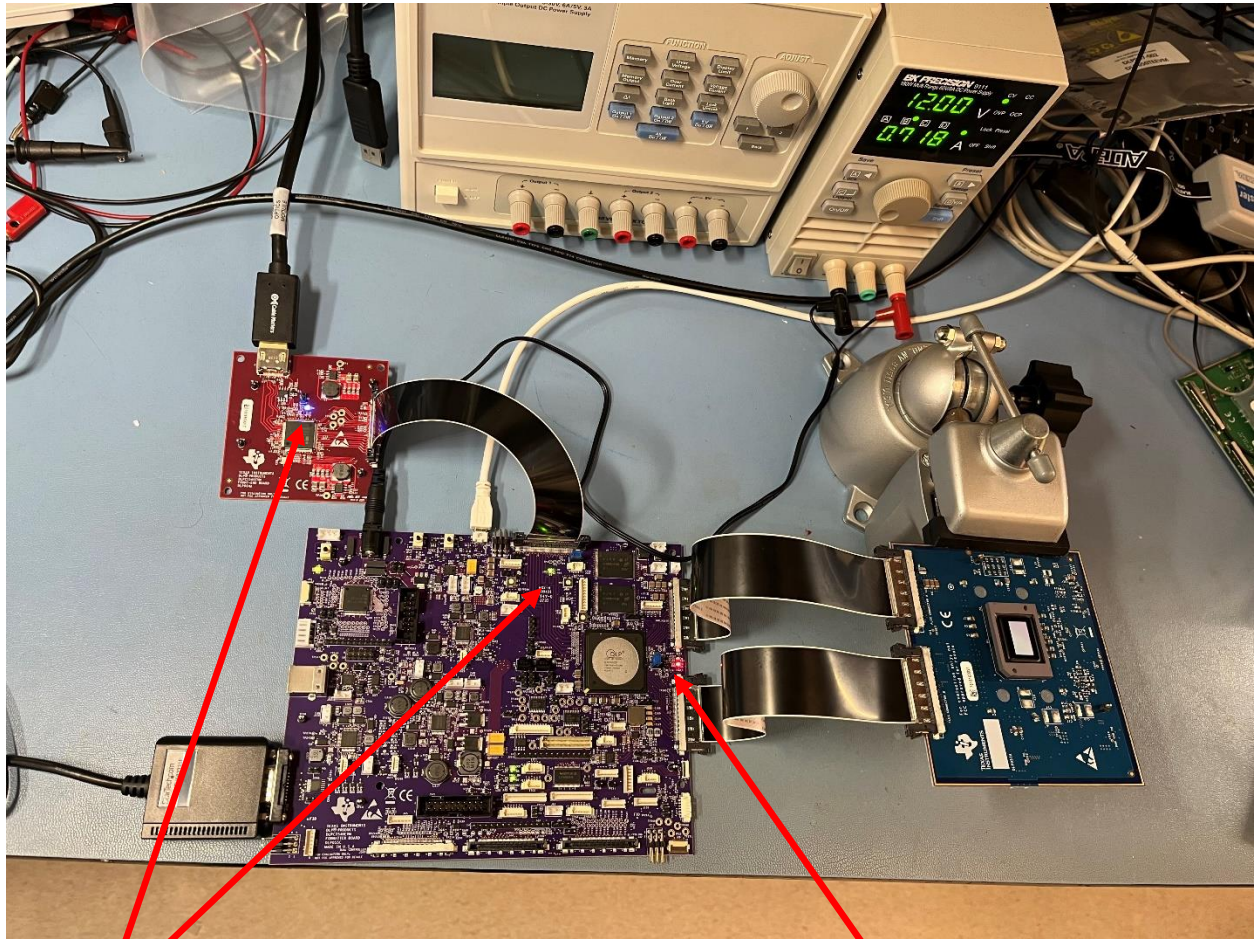
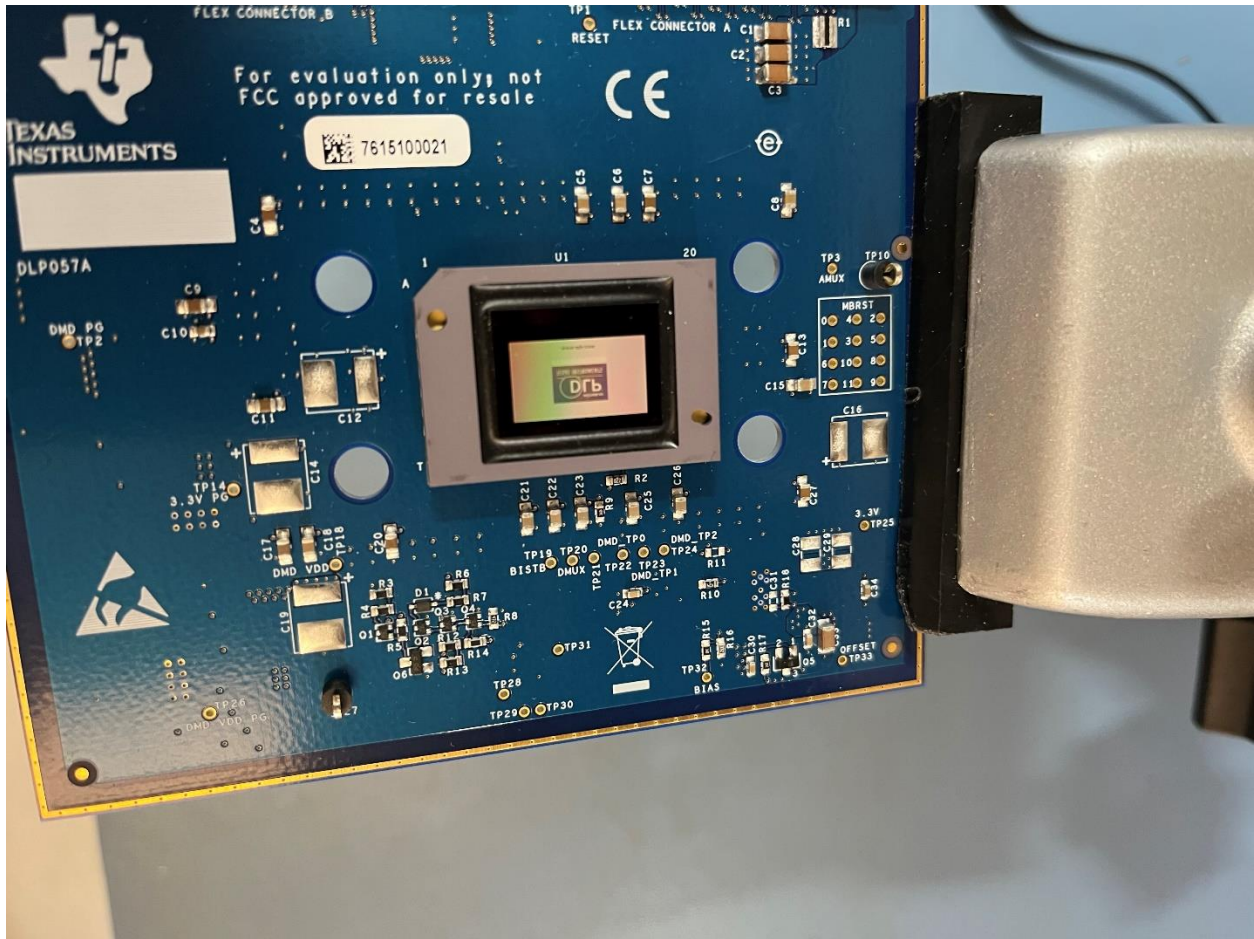


DLP650 Evaluation Board Test Setup



LOCK LEDs toggle on and off every 12 seconds

Heartbeat LED is running at 5Hz indicating an error.



Problem Statement:

The DLPC7540EVM will power up and display a splash screen, but it will not switch to the HDMI input. The lock LEDs toggle on for 12 seconds, then go off for 12 seconds. In the debug output I see the message "Connector timeout is detected!, switching to next connector...". The heartbeat LED is running at 5Hz indicating an error. Also, I cannot display any test patterns.

Debug port capture:



capture_bad_AFE.tx
t

DLPC7540EVM

DLPC7540EVM

- 1 Connect the EVM to power
- 2 Connect the EVM to USB
- 3 Turn on main power
- 4 Turn on projector

Explore and learn!

EVM Information

EVM Component Set

DMD: 00100001 Show Datasheet on TI.com

Controller: DLPC7540 Show Datasheet on TI.com

Version Information

EVM Software: 4.5.0

EVM Firmware: 4.5.0

GUI Software: 3.1.0.7

Errors

- System Error
- Flash Error
- DMD Error
- Communication Error
- Sequence Error
- LED Error

EVM Status: Ready; Disp External

TEXAS INSTRUMENTS

Most of the time this is checked.

Tried the following already:

- 1) Changed HDMI cable and switched to another PC with the same result.
- 2) Changed all 3 black flex cables with new ones with the same result.
- 3) Successfully downloaded new firmware "Flash_DLPC7540_DLP650TE_LED.img" with the same result after a power cycle.
- 4) Changed 12V power supply and set the current limit to 7A with the same result.

Conclusions:

- 1) This is a brand new DLPC7540EVM, and DLP650TEEVM and it never worked properly out of the box.
- 2) It appears to be a defective board.