

DLP® LightCrafter 4500™ Evaluation Module (EVM) Errata

1 Resolution for Unsupported Voltage Level for Triggers in DLP LightCrafter 4500 EVM

Reference Documents:

- [LightCrafter4500 User's Guide](#)
- [SCES530](#) – Voltage translator that supports up to 3.3 V
- [SCES515](#) – Voltage translator that supports up to 5 V
- [Using DLP® LightCrafter™ 4500 Triggers to Synchronize Cameras to Patterns](#)

Reference Hardware:

- [DLP LightCrafter 4500 EVM](#)

1.1 Technical Advisory Description

Older revisions of the DLP LightCrafter 4500 EVM technical documents show the triggers set to one of three voltage levels: 1.8, 3.3, and 5 V. However, the voltage buffer implemented on the DLP LightCrafter 4500 is not the SN74LVC1T45DCK, which supports up to 5.5 V, but the SN74AVC1T45DCK, which only supports voltages up to 3.6 V. When using the 5 V trigger, the user runs the risk of damaging the part.

1.2 TI Action

TI revised the documentation noted above by adding notes in the schematic discussing the parts in question to reflect support of up to 3.3 V and removing references to 5.0 V triggers.

2 Recommended Customer Action

TI strongly recommends that all users of the DLP LightCrafter 4500 EVM refrain from using trigger voltages above 3.3 V. If the user needs a trigger higher than 3.3 V, the trigger must be stepped down before connecting it to the DLP LightCrafter 4500 EVM, or the customer should replace part number SN74AVC1T45DCK with part number SN74LVC1T45DCK on the DLP LightCrafter 4500 EVM.

For any questions, please search DLP Products:

[TI E2E Community](#)

Revision History

Changes from Original (July, 2014) to A Revision	Page
• Added reference document "Using DLP ® LightCrafter™ 4500 Triggers to Synchronize Cameras to Patterns"	1
• Technical Advisory Description to detail the voltage buffer	1
• Added information regarding the SN74AVC1T45DCK to SN74LVC1T45DCK replacement option.....	1

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