
TVP5146M2 RAM Release Notes

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1. Introduction

The TVP5146M2 has embedded video decoding firmware revision v08.00.00 in the device on-chip ROM. The TVP5146M2 device has a limited embedded RAM space which allows patch firmware code download possible. The patch can be used in improving decoder performance or fixing known decoder firmware bugs.

This document discusses the hardware and firmware issues related to the TVP5146M2 and fixes made by the patch v08.00.06. The discussions also include performance improvement made by the patch, the differences between the patch and the TVP5146M2 Data Manual.

2. Device & Firmware Affected

The information provided below is related only to the following device and firmware. Additional devices and firmware releases will have their own release notes.

Table 1. Device & Firmware Affected

Device	TVP5146M2
Firmware	v08.00.06
Patch Size	13,168 bytes
Datasheet	SLES141G.pdf

3. Device Related Issues

- The following are the known firmware issues in the TVP5146M2 ROM v2.00 device. Additional issues will be added to the list as they are discovered.
- Fixed the output black level for SCART inputs.
- Fixed color issue caused by incorrect gain setting when the input is changed from Composite or S-Video to SCART-RGB.
- Fixed color issue caused by Macrovision pseudo-sync pulses when the input is changed from S-Video to SCART-RGB.
- Added support for square-pixel timing.
 - Square-pixel mode is selected by setting bit 7 of register 33h to 1.
- Provided stable output syncs when there's no input signal.

4. Related Documentation

The following is the currently available related documentation.

Table 2. Related Documentation

Description	File	Purpose
Patch download app note	SLEA091A.pdf	Application note

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