H.264 Encoder
Version 01.10.02

Release Notes

January 2011

Build ID: 01.10.02.05

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Fixed bugs: SDOCM00077881

Validation Information

Release Configuration	Description	Validation Platform
DM6467_BP_001	H.264 1080p@30 BP Encoder on DM6467	DM6467 EVM [Datasheet][User Guide]

This release is validated on the following:

- DM6467 EVM running @ 675MHz
    - Code Composer Studio Version 3.3.49
    - Code Generation Tool version 6.0.8
    - Codec Engine (CE) version 2.10.01
    - XDAIS version 6.25 (or newer)
    - DSP/BIOS^{TM} version 5.31
    - HDVICP version 1.01.020

TEXAS INSTRUMENTS

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00077881	In some I frames MaxSlicesSupported limit is exceeding and in turn bits consumed increased causing network congestion.	DM6467_BP_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00057671	The operating bit rate for high motion content is 6mbps and above due to the limitation of the encoder algorithm	DM6467_BP_001
SDOCM00057668	Simultaneous encode + decode not supported because both HDVICPS are used by the 1080p encoder	DM6467_BP_001
SDOCM00057533	The 720p quality of this encoder is not at par with the 720p encode only solution from TI	DM6467_BP_001
SDOCM00057286	Tradeoffs have been made for performance of 1080p at the cost of quality Outargs structure contains pointers	DM6467_BP_001
SDOCM00057411	There are two parameters to choose multiple rows as a slice (numRowsInSlice, sliceMode)	DM6467_BP_001
SDOCM00057480	The recon buffer pointer when read from the ARM926 is null	DM6467_BP_001
SDOCM00028372	Row based multiple slices is not supported	DM6467_BP_001
SDOCM00059290	Trailing artifacts are observed for several sequences like tractor, oldtowncross, vipernight and blue sky at low bit rates	DM6467_BP_001
SDOCM00059763	Artifacts observed for 720p encoding for the shields sequence (on the sleeves of the person's hand, limitations of the encoder algorithm)	DM6467_BP_001
SDOCM00059767	Chroma degradations in certain regions observed on pedestrian, jet and crew sequences for 720p resolution	DM6467_BP_001
SDOCM00059813	Encoded picture is blocky at the fading scene change	DM6467_BP_001

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Defect ID	Description	Applicable Release Configuration
SDOCM00059755	Oscillation of bits per frame is observed for few sequences	DM6467_BP_001
SDOCM00059293	Artifacts observed for parkjoy sequence at 8 mbps (limitations of the encoder algorithm)	DM6467_BP_001
SDOCM00062836	Breathing artifacts are observed on sequences like intotree, station	DM6467_BP_001
SDOCM00062837	For static regions non-zero motion vectors and incorrect modes observed for pedestrian sequence	DM6467_BP_001

TEXAS INSTRUMENTS