Product Manual

UVCS Adapted for Linux Common Engine Library

Specification Manual

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Rev.1.00 2014.11

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(2012.4)

How to Use This Manual

1. Purpose and Target Readers

This manual is designed to provide the user with an understanding of the user interface of this software.
Target reader is the user which designs the applied system using this software.
For using this manual, it is required following knowledge,

- Knowledge of Moving picture.
- Knowledge of RTOS (Real time operating system).
- Knowledge of each CODEC to use.

2. About using this software

When you use this software, you need to enter into the software license agreement with us.

3. Related Manuals

As a related document, the next manual and document are prepared for using this software.
Please contact Renesas Electronics sales office if necessary.

- UVCS Decode Engine Library User's Manual
- UVCS Encode Engine Library User's Manual

4. About Revision History

Revision history is only the main point that we corrected or added it for the former edition.
It is not the thing which recorded all the revision contents.
Please refer to this manual about a detail.

5. List of Abbreviations

Abbreviation	Long Name
UVCS-CMN	UVCS Adapted for Linux Common Engine Library
UVCS-DEC	UVCS Adapted for Linux Decode Engine Library
UVCS-ENC	UVCS Adapted for Linux Encode Engine Library
DRV-CORE	VCP3 Driver Adapted for Linux Core Library

6. List of Acronyms

Acronyms	Long Name
UVCS	Unified Video CODEC Server

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1. Specifications

The specification is described in Table 1.1.

Table 1.1 Specification

Items	Description
Type name	RTM0AC0000UVCSCMN1SL32C
Library Name	UVCS Adapted for Linux Common Engine Library
Software categories	Moving picture playback and recoding
CPU	ARMv7
Target LSI	R-Car H2 / M2 / E2 Series
Endian	Little
Supported OS	Linux 3.10

2. Development Environment

The toolchain of makefiles are described in Table 2.1.

The folder of each makefile refers to 3.File List.

Table 2.1 Toolchain

Folder 1	Folder 2	Folder 3	Toolchain
source	makefile	linaro_4_7_3	gcc-linaro-arm-linux-gnueabihf-4.7-2013.02-01-20130221_linux.tar.bz2

3. File List

The File-list of this library is described in Table 3.1.

Table 3.1 File List

dir			filename	description
include	-	-	uvcs_cmn.h	Header file for UVCS-CMN
			uvcs_types.h	
			GPL-COPYING	
			MIT-COPYING	
source	uvcs_cmn	-	uvcs_cmn_api.c	Source file of UVCS-CMN
			uvcs_cmn_dump.c	
			uvcs_cmn_dump.h	
			uvcs_cmn_internal.h	
			GPL-COPYING	
			MIT-COPYING	
	uvcs_lkm	-	uvcs_ioctl.h	Source file of Loadable Kernel Module for UVCS-CMN (Sample source)
			uvcs_lkm.c	
			uvcs_lkm_internal.h	
			uvcs_lkm_uf_io.c	
			uvcs_lkm_uf_other.c	
			uvcs_lkm_uf_semaphore.c	
			uvcs_lkm_uf_thread.c	
			GPL-COPYING	
			MIT-COPYING	
	driver_core	-	mcvx_api.c	Source file of VCP3 Driver Core
			mcvx_api.h	
			mcvx_register.h	
			mcvx_types.h	
			GPL-COPYING	
			MIT-COPYING	
	makefile	linaro_4_7_3	Makefile	Make file of UVCS-CMN for Linux
-	-	-	UVCS_CMN_FUNCTIONS_MANUAL.pdf	UVCS-CMN Functions Manual.
			UVCS_CMN_SAMPLE_CODES_MANUAL_FOR_LINUX.pdf	UVCS-CMN Sample Codes Manual.
			UVCS_CMN_SPECIFICATION_MANUAL_FOR_LINUX.pdf	UVCS-CMN Specification Manual

REVISION HISTORY	UVCS Adapted for Linux Common Engine Library Specification Manual

Rev.	date	revision	
		pages	point
1.00	2014.11.20	–	Version 1.0

UVCS Adapted for Linux Common Engine Library
Specification Manual

Publication Date Rev.1.00 Nov 20, 2014

Published by Renesas Electronics Corporation

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