

OMX Media Component

Product manual

OMX Media Component for Dolby(R) Digital Decoder

Library for Linux

RTM0AC0000XADD5D20SL32E

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1. Overview

1.1. Overview of This Document

This Document is the Product Manual for OMX Media Component for Dolby(R) Digital Decoder Library for Linux. For function specification, please read related document [1].

1.2. Related Document

Table 1-1 shows the related documents.

Table 1-1 List of Related Document

NO	Document Name	Description
[1]	OMX Media Component User's Manual Dolby(R) Digital Decoder Part	Specification documents of Dolby(R) Digital Decoder

2. Product Specification

2.1. Basic Specification

Table 2-1 shows the basic specification of this library.

Table 2-1 Basic Specification

Item	Description
Product Number	RTM0AC0000XADD5D20SL32C
Product Name	OMX Media Component for Dolby(R) Digital Decoder Library for Linux
Software categories	Multimedia codec processing
Outline of Function	Provide OpenMAX IL 1.1.2 Core / Component API
Target CPU	ARMv7 architecture
Target LSI	R-Car H2 / M2 / E2 Series
Language	C Language
Endian	Little endian
Supported OS	Linux 3.10
Tool	cortexa15hf-vfp-neon-poky-linux-gnueabi gcc version 4.8.3 20140401 (prerelease) (Linaro GCC 4.8-2014.04)
Library Format	Dynamic Link Library
CPU load	12[MHz] *1
Number of thread	3 threads per a Media Component instance except for the threads created in User Defined Function part.
Thread priority	Thread priority shall be determined in User Defined Functions part.
System Call	This library does not call system call functions directly. All OS-dependent processing shall be implemented in User Defined Functions part.

*1 : It is a reference value when playing general contents (48kHz/384kbps/5.1ch). This value does not guarantee performance.

2.2. Memory Requirement

Table 2-2 shows the memory requirement of this library. The sizes in Table 2-2 do not include the memory consumption in User Defined Functions.

Table 2-2 Memory Requirement

Item	Size
Object Size	12Kbyte*1
Stack Size	10Kbyte
Heap Memory Size	89Kbyte
Shared Memory Size	22 – 288Kbyte

*1: It is a value of only this library.

2.3. Reserved Word

Table 2-3 shows reserved word of this library

Table 2-3 Reserved Word

Reserved word	Description
OMX	Prefix word of define, function and macro which is specified by OpenMAX IL specification
OMXR	Prefix word of define and macro which is implemented by Renesas
Omxr	Prefix word of function and variable which is implemented by Renesas

3. List of Files

The file list of this library is shown in Table 3-1.

Table 3-1 File List

Directory			File name	Description
RTM0AC0000XADD5D20SL32C			-	-
Document	ja		omx_users_manual_ddd_ja.pdf	User's manual (Japanese)
			RTM0AC0000XADD5D20SL32J.pdf	Product manual (Japanese)
	en		omx_users_manual_ddd_en.pdf	User's manual (English)
			RTM0AC0000XADD5D20SL32E.pdf	Product manual (English)
Software.tar.gz	OMXR	config	omxr_config_ddd.txt	Configuration file
		include	OMXR_Extension_ddd.h	Extended header file
		lib	libomxr_mc_ddd.so.2.0.0	Library

4. List of Dependent Library

Table 4-1 shows required libraries to use this library.

Table 4-1 Dependent Library List

Product number	Product name
RTM0AC0000XCMCTL20SL32C	OMX Media Component Common Library for Linux
RTM0AC0000XACMND20SL32C	OMX Media Component Audio Common Library for Linux
RTM0AC0000ADDD5MZ1SL32C	ARM 5.1ch Dolby(R) Digital Decode Middleware for Linux

4.1. Dependent Library Name

Table 4-2 shows names of dependent libraries to use this library.

Table 4-2 Dependent Library Name List

Product number	Dependent library name
RTM0AC0000XCMCTL20SL32C	libomxr_utility.so.2
RTM0AC0000XACMND20SL32C	libomxr_mc_acmn.so.2
RTM0AC0000ADDD5MZ1SL32C	libRSDACDLA_L.so.1

If the dependent library names are different from the dynamic library file names, please create the symbolic links between them.

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Rev.	Date	Description	
		Page	Summary
0.01	Mar. 14, 2014	-	Newly created.
0.02	Jul. 8, 2014	P6	The library name of RTM0AC0000ADDD5MZ1SL32C is changed.
0.10	Jul. 18, 2014	-	Correction of errors.
1.00	Oct. 9, 2014	-	Determine the T.B.D item.

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