

OMX Media Component

Product manual

OMX Media Component Audio Common Library for Linux

RTM0AC0000XACMND20SL32E

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1. Overview

1.1. Overview of This Document

This Document is the Product Manual for OMX Media Component Audio Common 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 Audio Common Part	Specification documents of OMX Audio Common Part.

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	RTM0AC0000XACMND20SL32C
Product Name	OMX Media Component Audio Common 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	See each OMX Media Component Product Manual.
Number of thread	See each OMX Media Component Product Manual.
Thread priority	Thread priority shall be determined in User Defined Functions part.
System call	This library does not call system call function directly. All OS dependent processing shall be defined by user.

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	45Kbyte
Stack Size	See each OMX Media Component Product Manual.
Heap Memory Size	See each OMX Media Component Product Manual.
Shared Memory Size	See each OMX Media Component Product Manual.

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
RTM0AC0000XACMND20SL32C			-	-
Document	ja		omx_users_manual_acmn_ja.pdf	User's manual (Japanese)
			RTM0AC0000XACMND20SL32J.pdf	Product manual (Japanese)
	en		omx_users_manual_acmn_en.pdf	User's manual (English)
			RTM0AC0000XACMND20SL32E.pdf	Product manual (English)
Software.tar.gz	OMXR	config	omxr_config_audio.txt	Configuration file
		include	OMXR_Extension_audio.h	Extended header file
		lib	libomxr_mc_acmn.so.2.0.0	Library

4. List of Dependent Library

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

Table 4-1 Dependent Library List

Product number	Product name
RTM0AC0000XCMCTL20SL32C	OMX Media Component Common Library for Linux

This library is common library to use each codec of OMX Media Component. Please use this library with each codec library.

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
	libomxr_mc_cmh.so.2

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

Revision History	OMX Media Component Product manual OMX Media Component Audio Common Library for Linux
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Rev.	Date	Description	
		Page	Summary
0.01	May. 13, 2014	-	Newly created.
0.02	Jul. 4, 2014	P5	Delete OMX Audio Integration Guide in the file list.
0.10	Jul. 18, 2014	-	Correction of errors.
1.00	Oct. 9, 2014	-	Determine the T.B.D item.

OMX Media Component Product manual
OMX Media Component Audio Common Library for Linux

Publication Date : Oct. 9, 2014 Rev. 1.00
Published by: Renesas Electronics Corporation

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