

OMX Media Component

Product manual

OMX Media Component for AAC-LC Encoder Library for Linux

RTM0AC0000XAAACE20SL32E

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OMX Media Component Product manual OMX Media Component for AAC-LC Encoder Library for Linux

RTM0AC0000XAAACE20SL32E Rev. 1.00 Oct. 9, 2014.

1. Overview

1.1. Overview of This Document

This Document is the Product Manual for OMX Media Component for AAC-LC Encoder 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	
Ī	[1]	OMX Media Component User's Manual AAC-LC Encoder Part	Specification documents of AAC-LC Encoder	

2. Product Specification

2.1. Basic Specification

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

Table 2-1 Basic Specification

Table 2-1 Dasie Opcomedition		
Description		
RTM0AC0000XAAACE20SL32C		
OMX Media Component for AAC-LC Encoder Library for Linux		
Multimedia codec processing		
Provide OpenMAX IL 1.1.2 Core / Component API		
ARMv7 architecture		
R-Car H2 / M2 /E2 Series		
C Language		
Little endian		
Linux 3.10		
cortexa15hf-vfp-neon-poky-linux-gnueabi		
gcc version 4.8.3 20140401 (prerelease) (Linaro GCC 4.8-2014.04)		
Dynamic Link Library		
20[MHz]*1		
3 threads per a Media Component instance except for the threads created in User		
Defined Function part.		
Thread priority shall be determined in User Defined Functions part.		
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 (AAC-LC/48kHz/96kbps/2ch). 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

, i		
Item	Size	
Object Size	12Kbyte*1	
Stack Size	10Kbyte	
Heap Memory Size	96Kbyte	
Shared Memory Size	6 – 256Kbyte	

^{*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 valiable which is implemented by Renesas		

3 List of Files

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
F	RTM0AC0000XAAACE20SL32C			-	-
	Document ja		omx_users_manual_aace_ja.pdf	User's manual (Japanese)	
			RTM0AC0000XAAACE20SL32J.pdf	Product manual(Japanese)	
en		omx_users_manual_aace_en.pdf	User's manual (English)		
				RTM0AC0000XAAACE20SL32E.pdf	Product manual(English)
	Software.tar.gz	OMXR	config	omxr_config_aace.txt	Configuration file
			lib	libomxr_mc_aace.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		
RTM0AC0000AEAACMZ1SL32C	ARM AAC Encode 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
RTM0AC0000AEAACMZ1SL32C	libRSAACELA_L.so.2

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

Revision	OMX Media Component Product manual	
History	OMX Media Component for AAC-LC Encoder Library for Linux	

Davi	Date		Description	
Rev.		Page	Summary	
0.01	Jun. 6, 2014	•	Newly created.	
0.10	Jul. 18, 2014	-	Correction of errors.	
1.00	Oct. 9, 2014	-	Determine the T.B.D item.	
		6	Change library name of RTM0AC0000AEAACMZ1SL32C.	

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