

OMX Media Component

Product manual

OMX Media Component for ALAC Decoder Library for Linux

RTM0AC0000XAALAD20SL32E

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1. Overview

1.1. Overview of This Document

This Document is the Product Manual for OMX Media Component for ALAC 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 ALAC Decoder Part | Specification documents of ALAC 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 | RTM0AC0000XAALAD20SL32C |
| Product Name | OMX Media Component for ALAC 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 | 5[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/445kbps/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

| Item | Size |
|--------------------|---------------|
| Object Size | 11Kbyte*1 |
| Stack Size | 10Kbyte |
| Heap Memory Size | 116Kbyte |
| Shared Memory Size | 40 – 641Kbyte |

*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 |
|-------------------------|------|---------|-------------------------------|---------------------------|
| RTM0AC0000XAALAD20SL32C | | | - | - |
| Document | ja | | omx_users_manual_alacd_ja.pdf | User's manual (Japanese) |
| | | | RTM0AC0000XAALAD20SL32J.pdf | Product manual (Japanese) |
| | en | | omx_users_manual_alacd_en.pdf | User's manual (English) |
| | | | RTM0AC0000XAALAD20SL32E.pdf | Product manual (English) |
| Software.tar.gz | OMXR | config | omxr_config_alacd.txt | Configuration file |
| | | include | OMXR_Extension_alacd.h | Extended header file |
| | | lib | libomxr_mc_alacd.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 |
| RCG2ADALAMZ1SL32 | ARM ALAC Decode Software 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 |
| RCG2ADALAMZ1SL32 | libALACDLA_L.so.1 |

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 for ALAC Decoder Library for Linux |
|---------------------|--|

| Rev. | Date | Description | |
|------|---------------|-------------|--|
| | | Page | Summary |
| 0.01 | Jun. 6, 2014 | - | Newly created. |
| 0.02 | Jul. 8, 2014 | P6 | The product number and product name of ALAC Decode Middleware are changed. |
| 0.10 | Jul. 18, 2014 | - | Correction of errors. |
| 1.00 | Oct. 9, 2014 | - | Determine the T.B.D item. |
| | | | |

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OMX Media Component for ALAC Decoder Library for Linux

Publication Date : Oct. 9, 2014 Rev. 1.00

Published by: Renesas Electronics Corporation

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