

OMX Media Component

Product manual

OMX Media Component for MP3 Decoder Library for Linux

RTM0AC0000XAMP3D20SL32E

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OMX Media Component Product manual OMX Media Component for MP3 Decoder Library for Linux

RTM0AC0000XAMP3D20SL32E 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 MP3 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 MP3 Decoder Part | Specification documents of MP3 Decoder | |

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 Dasic Opecification | | |
|--|--|--|
| Description | | |
| RTM0AC0000XAMP3D20SL32C | | |
| OMX Media Component for MP3 Decoder 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 | | |
| 15[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 (Mpeg1 layer3/48kHz/128kbps/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 | 64Kbyte |
| Shared Memory Size | 7 – 416Kbyte |
| | 1 41 19 |

^{*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 | RTM0AC0000XAMP3D20SL32C | | | - | - |
| Document ja | | | omx_users_manual_mp3d_ja.pdf | User's manual (Japanese) | |
| | | | | RTM0AC0000XAMP3D20SL32J.pdf | Product manual (Japanese) |
| | | | omx_users_manual_mp3d_en.pdf | User's manual (English) | |
| | | | RTM0AC0000XAMP3D20SL32E.pdf | Product manual (English) | |
| | Software.tar.gz | OMXR | config | omxr_config_mp3d.txt | Configuration file |
| | | | lib | libomxr_mc_mp3d.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

| 14.0.0 1 1 2 0 0 1 1 2 0 0 1 1 2 1 0 1 1 1 1 | | |
|--|--|--|
| Product number | Product name | |
| RTM0AC0000XCMCTL20SL32C | OMX Media Component Common Library for Linux | |
| RTM0AC0000XACMND20SL32C | OMX Media Component Audio Common Library for Linux | |
| RTM0AC0000ADMP3MZ1SL32C | ARM MP3 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 |
| RTM0AC0000ADMP3MZ1SL32C | libMP3DLA_L.so.1 |

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 MP3 Decoder Library for Linux |

| Day | 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. |
| | | | |

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