

# OMX Media Component

Product manual

OMX Media Component for WMA Standard Decoder Library  
for Linux

RTM0AC0000XAWMAD20SL32E

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## 1. Overview

### 1.1. Overview of This Document

This Document is the Product Manual for OMX Media Component for WMA Standard 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 WMA Standard Decoder Part	Specification documents of WMA Standard 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
<b>Product Number</b>	RTM0AC0000XAWMAD20SL32C
<b>Product Name</b>	OMX Media Component for WMA Standard Decoder Library for Linux
<b>Software categories</b>	Multimedia codec processing
<b>Outline of Function</b>	Provide OpenMAX IL 1.1.2 Core / Component API
<b>Target CPU</b>	ARMv7 architecture
<b>Target LSI</b>	R-Car H2 / M2 / E2 Series
<b>Language</b>	C Language
<b>Endian</b>	Little endian
<b>Supported OS</b>	Linux 3.10
<b>Tool</b>	cortexa15hf-vfp-neon-poky-linux-gnueabi gcc version 4.8.3 20140401 (prerelease) (Linaro GCC 4.8-2014.04)
<b>Library Format</b>	Dynamic Link Library
<b>CPU load</b>	10[MHz] *1
<b>Number of thread</b>	3 threads per a Media Component instance except for the threads created in User Defined Function part.
<b>Thread priority</b>	Thread priority shall be determined in User Defined Functions part.
<b>System Call</b>	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/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	14Kbyte*1
Stack Size	10Kbyte
Heap Memory Size	100Kbyte
Shared Memory Size	16 – 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
RTM0AC0000XAWMAD20SL32C		-		-
Document	ja	omx_users_manual_wmad_ja.pdf		User's manual (Japanese)
		RTM0AC0000XAWMAD20SL32J.pdf		Product manual (Japanese)
	en	omx_users_manual_wmad_en.pdf		User's manual (English)
		RTM0AC0000XAWMAD20SL32E.pdf		Product manual (English)
Software.tar.gz	OMXR	config	omxr_config_wmad.txt	Configuration file
		lib	libomxr_mc_wmad.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
RTM0AC0000ADWMAMZ1SL32C	ARM WMA 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
RTM0AC0000ADWMAMZ1SL32C	libWMASTDLA_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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History	OMX Media Component for WMA Standard Decoder Library for Linux

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		Page	Summary
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