

OMX Media Component

Product Manual:

OMX Media Component H.264 Encoder Library
for Linux

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1. Overview

1.1. Overview of This Document

This document is the Product Manual of OMX Media Component H.264 Encoder Library for Linux. For the functional specifications of the library, see related documents [1].

1.2. Related Documents

Table 1-1 lists the related documents.

Table 1-1 List of Related Documents

No.	Document Name	Description
[1]	OMX Media Component User's Manual H.264 Encoder Part	The user's manual that describes functional specifications of this library.
[2]	OMX Integration Guide for Linux	OMX Integration Guide documents describe how to integrate the OMX to the system.

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	RTM0AC0000XV264E20SL32C
Product Name	OMX Media Component H.264 Encoder Library for Linux
Software categories	Multimedia codec processing
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 chain	GCC 4.7.4 (cortexa15hf-vfp-neon-poky-linux-gnueabi) built by R-CarH2/M2 Yocto recipe package
Library Format	Dynamic Link Library
CPU load	40 [MHz]
Number of thread	2 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.

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	Description
Object Size	64 [Kbyte]
Stack Size	10 [Kbyte]
Heap Memory Size	1 [Mbyte]
Shared Memory Size	Regarding to this item, see related document [1].

2.3. Reserved Words

Table 2-3 lists reserved words of this library.

Table 2-3 Reserved Words

Reserved Words	Description
OMX	The prefix word for the names of defines, functions and Macros that is defined in OpenMAX IL Specification.
OMXR	The prefix word for the names of defines and Macros in this library.
Omxr	The prefix word for the names of functions and variables in this library.

3. List of Files

Table 3-1 shows the file list of this library.

Table 3-1 File List

Directory		File name	Description	
RTM0AC0000XV264E20SL32C		-		
+	Document		-	
	+	en	omx_users_manual_h264e_en.pdf	User's Manual
		RTM0AC0000XV264E20SL32C_ReleaseNote.txt		Release Note
		RTM0AC0000XV264E20SL32E.pdf		Product Manual(This document)
	-	Software.tar.gz		See Table 3-2

Table 3-2 Files included in Software.tar.gz

Directory				File name	Description	
Software				-		
+	OMXR			-		
	+	config		omxr_config_h264e.txt	Configuration file	
		include		OMXR_Extension_h264.h	Renesas OMX Extension header	
				OMXR_Extension_h264e.h	Renesas OMX Extension header	
	lib			-		
	+	linux		-		
		+	linaro_4_7_3		libomxr_mc_h264e.so.2.0.0	Library
					libvcp3_avce.so.1.0.0	Library

4. Dependent Products

Table 4-1 lists the dependent products of this library.

Table 4-1 Dependent Products

Product Number	Product Name
RTM0AC0000XVCMNE20SL32C	OMX Media Component Video Encoder Common Library for Linux

5. Installation

See related document [2].

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