

# OMX Media Component

Product Manual:

OMX Media Component VC-1 Decoder 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 VC-1 Decoder 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 VC-1 Decoder 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	RTM0AC0000XVVC1D20SL32C
Product Name	OMX Media Component VC-1 Decoder 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 3.4 (For evaluation purpose only)
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	T.B.D. [MHz]
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.

## 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	40 [Kbyte]
Stack Size	T.B.D. [Kbyte]
Heap Memory Size	1 [Mbyte]
Shared Memory Size	64 [Mbyte] <sup>*1</sup>

<sup>\*1</sup>: The memory size is for 1920x1080 Advanced Profile stream case. For more details, 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
RTM0AC0000XVVC1D20SL32C				
+	Document	en	RTM0AC0000XVVC1D20SL32E.pdf	Product Manual(This document)
			omx_users_manual_vc1d_en.pdf	User's Manual
			RTM0AC0000XVVC1D20SL32C_ReleaseNote.txt	Release Note
	-		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_vc1d.txt	Configuration file
		include			OMXR_Extension_vc1.h	Renesas OMX Extension header
					OMXR_Extension_vc1d.h	Renesas OMX Extension header
		lib	linux	linaro_4_7_3	libomxr_mc_vc1d.so.2.0.0	Library
					libvcp3_vc1d.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
RTM0AC0000XVCMND20SL32C	OMX Media Component Video Decoder Common Library for Linux

## 5. Installation

See related document [2].



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**Renesas Electronics America Inc.**  
2880 Scott Boulevard Santa Clara, CA 95050-2554, U.S.A.  
Tel: +1-408-588-6000, Fax: +1-408-588-6130

**Renesas Electronics Canada Limited**  
1101 Nicholson Road, Newmarket, Ontario L3Y 9C3, Canada  
Tel: +1-905-898-5441, Fax: +1-905-898-3220

**Renesas Electronics Europe Limited**  
Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K  
Tel: +44-1628-651-700, Fax: +44-1628-651-804

**Renesas Electronics Europe GmbH**  
Arcadiastrasse 10, 40472 Düsseldorf, Germany  
Tel: +49-211-65030, Fax: +49-211-6503-1327

**Renesas Electronics (China) Co., Ltd.**  
7th Floor, Quantum Plaza, No.27 ZhiChunLu Haidian District, Beijing 100083, P.R.China  
Tel: +86-10-8235-1155, Fax: +86-10-8235-7679

**Renesas Electronics (Shanghai) Co., Ltd.**  
Unit 204, 205, AZIA Center, No.1233 Lujiazui Ring Rd., Pudong District, Shanghai 200120, China  
Tel: +86-21-5877-1818, Fax: +86-21-6887-7858 / -7898

**Renesas Electronics Hong Kong Limited**  
Unit 1601-1613, 16/F., Tower 2, Grand Century Place, 193 Prince Edward Road West, Mongkok, Kowloon, Hong Kong  
Tel: +852-2886-9318, Fax: +852 2886-9022/9044

**Renesas Electronics Taiwan Co., Ltd.**  
13F, No. 363, Fu Shing North Road, Taipei, Taiwan  
Tel: +886-2-8175-9600, Fax: +886 2-8175-9670

**Renesas Electronics Singapore Pte. Ltd.**  
80 Bendemeer Road, Unit #06-02 Hyflux Innovation Centre Singapore 339949  
Tel: +65-6213-0200, Fax: +65-6213-0300

**Renesas Electronics Malaysia Sdn.Bhd.**  
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No. 18, Jln Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia  
Tel: +60-3-7955-9390, Fax: +60-3-7955-9510

**Renesas Electronics Korea Co., Ltd.**  
11F, Samik Lavied' or Bldg., 720-2 Yeoksam-Dong, Kangnam-Ku, Seoul 135-080, Korea  
Tel: +82-2-558-3737, Fax: +82-2-558-5141

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