How to Use This Manual

**Purpose and Target Readers**

This manual is designed to provide the user with an understanding the functions of Memory Manager for Linux. This manual is written for engineers who use Memory Manager.

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| Particular attention should be paid to the precautionary notes when using the manual. These notes occur within the body of the text, at the end of each section, and in the Usage Notes section. |

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| The revision history summarizes the locations of revisions and additions. It does not list all revisions. Refer to the text of the manual for details. |

Please refer to documents of software and hardware for a target system implementing Memory Manager as necessary.

The following documents are related documents. Make sure to refer to the latest versions of these documents. The newest versions of the documents listed may be obtained from the Renesas Electronics Web site.

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| **Document Type** | **Description** | **Document Title** | **Notes** |
| User’s manual for Hardware | Hardware specifications (pin assignments, memory maps, peripheral function specifications, electrical characteristics, timing charts) and operation description  Note: Refer to the application notes for details on using peripheral functions. | R-Car Series, 3rd Generation User’s Manual: Hardware |  |
| User’s manual for Software | Description of Memory Manager | Memory Manager for Linux | This manual |

**Notation of Numbers and Symbols**

This manual uses following notation.

Binary 0bXXXXXXXX (X=0 or 1)

Decimal XXX (X=0-9)

Hex 0xXXXXXXXX (X=0-9,A-F)

**List of Abbreviations and Acronyms**

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| **Abbreviation** | **Full Form** |
| MMNGR | Memory Manager |
| CMA | Contiguous Memory Allocator |
| DTV | Digital Terrestrial Television |
| SSP | Stream processor |
| MMP | Multimedia Package |
| VSP | Video Signal Processor |
| FDP | Fine Display Processor |
| FCP | Frame Compression Processor |
| FCPV | FCP for VSP |
| FCPF | FCP for FDP |
| FCNL | Near lossless data compression |
| IPL | Initial Program Loader |

**List of Terminologies**

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| Terms | **Explanation** |
| Lossy | FCNL offered by FCPV and FCPF |
| MMU | Memory Management Unit |
| IPMMU | MMU for IP |
| PMB | Privileged space Mapping Buffer |

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