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| REVISION HISTORY | Linux Interface Specification Device Driver MSIOF User’s Manual: Software |

| Rev. | Date | Description | |
| --- | --- | --- | --- |
| Page | Summary |
| 0.1 | Sep. 25, 2015 | ⎯ | New creation. |
| 0.2 | Nov. 20, 2015 | 2 | 1.5 Restrictions  DMA was supported. |
| 7 | Figure 4.3 Kernel configuration (R-Car H3)  Remove the DMA item. |
| 7 | Notes:  Remove. |
| 0.3 | Mar. 18, 2016 | 1 | 1.2 Function  Usage of DMA. |
| 1 | Table 1.1 Driver Function  Add transfer size. |
| 0.4 | Apr. 15, 2016 | All | Add R-Car M3 support. |
|  |  | 2 | Table 1.5 Related document (R-Car H3/M3)  Update related documents. |
|  |  | 6 | 4.2 Integration Procedure  Add R-Car M3 Device tree file(r8a7796.dtsi). |
| 0.5 | Aug. 5, 2016 | 1 | Table 1.1  Add “Module Clock”, “The biggest transfer clock” |
|  |  | 2 | Table 1.3-2 Related Documents  - H3 Document Update.  - Add M3 Document. |
|  |  | 5, 6 | Add “3.1 IPMMU Setting” |
| 0.6 | Dec. 16, 2016 | 5, 7 | 3.1 IPMMU Setting  4.2 Integration Procedure  Change R-Car H3 Device tree file name (r8a7795.dtsi, r8a7795-salvator-x.dts) |
| 0.7 | Mar. 15, 2017 | 1 | 1.3 Connected device  Fix “R-Car H3/M3 System” to “R-Car H3-Sip/M3-Sip System” |
|  |  | 2 | Table 1.5 Related document (R-Car H3/M3)  - Add User’s Manual: Hardware Rev.0.53.  - Add Salvator-XS Hardware Manual Rev.2.00. |
|  |  | 3 | Table 2.1 Hardware specification  Add Evaluation Board Salvator-XS. |
|  |  | 5, 6 | 3.1 IPMMU Setting  - Add R-Car H3 WS2.0 Device tree file(r8a7795.dtsi).  - Add hardware revision to the description of device tree file name (r8a7795-es1.dtsi,  r8a7795-es1.dtsi).  - Change the Figure and description for Figure 3.1 and Figure 3.2 |
|  |  | 8 | 4.2 Integration Procedure  - Add R-Car H3 WS2.0 Device tree file(r8a7795-salvator-x.dts).  - Add Salvatore-XS Device tree file(r8a7795-salvator-xs.dts).  - Add hardware revision to the description of device tree file name (r8a7795-salvator-x.dts, r8a7795-salvator-xs.dts , r8a7795-es1-salvator-x.dts).  - Change the Figure 4.2 |
| 0.8 | Apr. 14, 2017 | 1 | Table 1.1 Driver Function  Add the biggest transfer clock for R-Car H3 WS2.0. |
|  |  | 6 | 3.1 IPMMU Setting  Add DMA channel to use for each channel. |
| 0.9 | Jun. 14, 217 | 1, 5, 8 | 1.2 Function  3.1 IPMMU Setting  4.2 Integration Procedure  Change of version notation. |
|  |  | 2 | Update User’s Manual: Hardware Rev0.53 to Rev0.54. |
| 1.00 | Aug. 8, 2017 | All | Update document format. |
| 1.0.1 | Oct. 24, 2-17 | All | Add R-Car M3N support. |
|  |  | 8 | 4.2 Integration Procedure  Add Salvatore-XS Device tree file(r8a7796-salvator-xs.dts). |
| 1.50 | Jan. 29, 2018 | 2 | Table 1.5 Related documents (R-Car H3/M3/M3N)  - Delete User’s Manual: Hardware Rev.0.51.  - Delete User’s Manual: Hardware Rev.0.55.  - Add User’s Manual: Hardware Rev.0.80. |
|  |  | 6 | Delete 3.1 IPMMU Setting |
|  |  | 7 | Add 4.2.1 Device tree setting |
|  |  | 10 | Add 4.2.2 Add userspace interface |
|  |  | 11 | Update 4.2.3 Kernel configuration |
| 1.51 | Mar. 28, 2018 | All | Add R-Car E3 support. |
|  |  | 1,2 | Table 1.1 Driver Function  - Update “Module Clock “, “Max transfer frequency”  1.4 Related documents  - Add “R-Car Series, 3rd Generation Additional Document for User’s Manual: Hardware “ |
|  |  | 8 | 4.2.1 Device tree setting  - Update “aliases “ |
|  |  | 9 | Figure 4 4 Clock setting  - Update “clock-frequency“ |
| 1.52 | Jun. 27, 2018 | 8 | 1.6 Notice  - Add notice for R-Car H3 Ver.3.0. |
|  |  | 8 | 4.2.1 Device tree setting  - Update the target file. |
| 1.53 | Oct. 22, 2018 | 2 | 1.4 Related documents  - Delete User’s Manual: Hardware Rev.0.80.  - Delete “R-Car Series, 3rd Generation Additional Document for User’s Manual: Hardware “  - Add User’s Manual: Hardware Rev.1.00. |
| 2.00 | Dec. 25, 2018 | 2 | Table 1.5 Related documents (R-Car H3/M3/M3N/E3)  - Updated board manual. |
|  |  | 4 | Table 2.1 Hardware specification (R-Car H3/M3/M3N/E3)  - Updated board name. |
|  |  | - | Update AddressList. |
| 2.01 | Mar. 11, 2019 | 8, 11,12 | Fix typo. |
| 2.50 | Apr. 24, 2020 | All | Add R-Car V3U support |
|  |  | All | Update for based on kernel v5.4 |
| 2.51 | Dec. 1, 2020 | 2 | Table 1.4  Update connected device |
|  |  | 3 | Table 1.5 Related documents (R-Car H3/M3/M3N/E3/V3U)  Fix Edition and Data of H/W manual for V3U/Falcon |
|  |  | 10 | Figure 4‑4 Pin  Add pin setting for V3U falcon |
| 2.52 | Jan. 29, 2021 | - | Add R-Car V3H v2.0 support. |
| 2.53 | Apr. 21, 2021 | - | - Add R-Car D3 support.  - Add Kernel v5.10 support |
| 2.54 | Aug. 16, 2021 | 10 | Figure 4-4  Update Pin function setting for D3 Draak |
| 3.00 | Dec. 10, 2021 | - | Add Kernel v5.10.41 support |
| 3.1.0 | Dec. 25, 2023 | - | Add Kernel v5.19.194 support for H3, M3, M3N, E3 |