

# RENESAS TECHNICAL UPDATE

1753, Shimonumabe, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8668 Japan  
Renesas Electronics Corporation

Product Category	MPU/MCU		Document No.	TN-SH7-A874A/E	Rev.	1.00
Title	SH7450 Group, SH7451 Group User's Manual Hardware Errata Rev. B		Information Category	Technical Notification		
Applicable Product	SH7450 Group, SH7451 Group	Lot No.	Reference Document	SH7450 Group, SH7451 Group User's Manual: Hardware Rev. 1.10 (R01UH0286EJ0110)		

We inform you of the corrections of "SH7450 Group, SH7451 Group User's Manual: Hardware Rev. 1.10 (Published on September 27, 2011)".

When you use "SH7450 Group, SH7451 Group User's Manual: Hardware Rev. 1.10", should be used together the attached errata.

In addition, the corrections in the following are also included in the attached errata (Rev. B).

- Technical update TN-SH7-A826A/E: Errata (Rev. A)
- Technical update TN-SH7-A859A/E: Errata to User's Manual Regarding CAN Module

Attached document: "SH7450 Group, SH7451 Group User's Manual: Hardware Rev. 1.10" Errata Rev. B – 11 sheets

\*Changes/additions are written in reds and underlined.

Rev.	Page	Part	Contents																								
Added in Rev. A	Revision History - xiii	26.3.14 CANi Status Register	Revision History: Description of CAN is added. -Page of Previous Edition: 26-49 -Description: Description of the bit 1 (SDST bit) in the CANi Status Register (CiSTR) (i = 0 to 4) is corrected. Error: The SDST bit is set to "1" when at least one SENTDATA bit in the CiMCTLj register is "1" regardless of the value of the CiMIER register. ----- Correction: The SDST bit is set to "1" when at least one SENTDATA bit in the CiMCTLj ( <u>i = 32 to 63</u> ) register is "1" regardless of the value of the CiMIER register.																								
			-Page of Previous Edition: 26-49 -Description: Description of the bit 0 (NDST bit) in the CANi Status Register (CiSTR) (i = 0 to 4) is corrected. Error: The NDST bit is set to "1" when at least one NEWDATA bit in the CiMCTLj register is "1" regardless of the value of the CiMIER register. ----- Correction: The NDST bit is set to "1" when at least one NEWDATA bit in the CiMCTLj ( <u>i = 0 to 63</u> ) register is "1" regardless of the value of the CiMIER register.																								
Added in Rev. A	Revision History - xv	32.5.1 FlexRay Error Interrupt Register	Revision History: Description of FlexRay is added. -Page of Previous Edition: 32-17 -Description: Description of the bit 24 (EDB bit) in the FlexRay Error Interrupt Register (FREIR) is corrected. Error: 0: No error detected on channel B <u>RW</u> ----- Correction: 0: No error detected on channel B																								
			-Page of Previous Edition: 32-18 -Description: Description of the bit 9 (IIBA bit) in the FlexRay Error Interrupt Register (FREIR) is corrected. Error: 0: No illegal CPU access to <u>Output</u> Buffer occurred 1: Illegal CPU access to <u>Output</u> Buffer occurred ----- Correction: 0: No illegal CPU access to <u>Input</u> Buffer occurred 1: Illegal CPU access to <u>Input</u> Buffer occurred																								
Added in Rev. A	Revision History - xvi	Appendix A CPU Operation Mode Register	Revision History: Description of Appendix A is added. -Page of Previous Edition: A-1 -Description: Value after reset of the bit 5 (RABD bit) in the CPU Operation Mode Register (CPUOPM) is revised. Error: Value after reset of the RABD bit is " <u>1</u> " ----- Correction: Value after reset of the RABD bit is " <u>0</u> "																								
Added in Rev. A	32-76	32.7.1 FlexRay CC Status Vector Register	Description of the bit 29 to 24 (PSL5 to PSL0 bit) in the FlexRay CC Status Vector Register (FRCCSV) is corrected. Error: Set to <u>B'000100</u> when leaving HALT state. ----- Correction: Set to <u>B'000000</u> when leaving HALT state.																								
Added in Rev. A	38-33	Table 38.26 RSPI Timing	Table 38.26 RSPI Timing : Incorrect description is corrected. Error: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Item</th> <th>Symbol</th> <th>Min.</th> <th>Max.</th> <th>Unit</th> <th>Figures</th> </tr> </thead> <tbody> <tr> <td>Data input setup time</td> <td>Slave <math>t_{SU}</math></td> <td><u><math>25 + 2 \times t_{cyc}</math></u></td> <td>-</td> <td>ns</td> <td>38.28 to 38.31</td> </tr> </tbody> </table> ----- Correction: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Item</th> <th>Symbol</th> <th>Min.</th> <th>Max.</th> <th>Unit</th> <th>Figures</th> </tr> </thead> <tbody> <tr> <td>Data input setup time</td> <td>Slave <math>t_{SU}</math></td> <td><u><math>25 - 2 \times t_{cyc}</math></u></td> <td>-</td> <td>ns</td> <td>38.28 to 38.31</td> </tr> </tbody> </table>	Item	Symbol	Min.	Max.	Unit	Figures	Data input setup time	Slave $t_{SU}$	<u><math>25 + 2 \times t_{cyc}</math></u>	-	ns	38.28 to 38.31	Item	Symbol	Min.	Max.	Unit	Figures	Data input setup time	Slave $t_{SU}$	<u><math>25 - 2 \times t_{cyc}</math></u>	-	ns	38.28 to 38.31
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Added in Rev. A	38-35	Figure 38.30 RSPI Timing (Slave, CPHA = "0")	<p>Figure 38.30 RSPI Timing (Slave, CPHA = "0") : Incorrect description is corrected. O in a figure shows the added part.</p> <p>Error:</p> <p>Correction:</p>																																		
Added in Rev. A	38-38	Table 38.29 DRI Timing (When Special Mode is On)	<p>Table 38.29 DRI Timing (When Special Mode is On) : Incorrect description is corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Symbol</th> <th>Min.</th> <th>Max.</th> <th>Unit</th> <th>Figures</th> </tr> </thead> <tbody> <tr> <td>DIN2 to DIN4 sampling edge undefined time before DIN1 initialization level release (when direct reset is selected)</td> <td>tar</td> <td>8</td> <td>-</td> <td>ns</td> <td rowspan="2">38.33 to 38.36</td> </tr> <tr> <td>DIN2 to DIN4 sampling edge undefined time before DIN1 initialization level release</td> <td>tbr</td> <td>12</td> <td>-</td> <td>ns</td> </tr> </tbody> </table> <p>Correction:</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Symbol</th> <th>Min.</th> <th>Max.</th> <th>Unit</th> <th>Figures</th> </tr> </thead> <tbody> <tr> <td>DIN2 to DIN4 sampling edge undefined time before DIN1 initialization level release</td> <td>tar</td> <td>8</td> <td>-</td> <td>ns</td> <td rowspan="2">38.33 to 38.36</td> </tr> <tr> <td>DIN2 to DIN4 sampling edge undefined time after DIN1 initialization level release</td> <td>tbr</td> <td>12</td> <td>-</td> <td>ns</td> </tr> </tbody> </table>	Item	Symbol	Min.	Max.	Unit	Figures	DIN2 to DIN4 sampling edge undefined time before DIN1 initialization level release (when direct reset is selected)	tar	8	-	ns	38.33 to 38.36	DIN2 to DIN4 sampling edge undefined time before DIN1 initialization level release	tbr	12	-	ns	Item	Symbol	Min.	Max.	Unit	Figures	DIN2 to DIN4 sampling edge undefined time before DIN1 initialization level release	tar	8	-	ns	38.33 to 38.36	DIN2 to DIN4 sampling edge undefined time after DIN1 initialization level release	tbr	12	-	ns
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Added in Rev. A	38-46	Table 38.35 AUDR Module Timing (PVcc = 5.0 V)	<p>Table 38.35 AUDR Module Timing (PVcc = 5.0 V) : Incorrect description is corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Symbol</th> <th>Min.</th> <th>Max.</th> <th>Unit</th> <th>Figures</th> </tr> </thead> <tbody> <tr> <td>AUDRD output delay time before AUDRCLK</td> <td>td(AUDRCLKH-AUDRD)</td> <td>-</td> <td>35</td> <td>ns</td> <td>38.46</td> </tr> </tbody> </table> <p>Correction:</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Symbol</th> <th>Min.</th> <th>Max.</th> <th>Unit</th> <th>Figures</th> </tr> </thead> <tbody> <tr> <td>AUDRD output delay time after AUDRCLK</td> <td>td(AUDRCLKH-AUDRD)</td> <td>-</td> <td>35</td> <td>ns</td> <td>38.46</td> </tr> </tbody> </table>	Item	Symbol	Min.	Max.	Unit	Figures	AUDRD output delay time before AUDRCLK	td(AUDRCLKH-AUDRD)	-	35	ns	38.46	Item	Symbol	Min.	Max.	Unit	Figures	AUDRD output delay time after AUDRCLK	td(AUDRCLKH-AUDRD)	-	35	ns	38.46										
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Added in Rev. B	12-8	12.3.2 Flash Access Status Register (FASTAT)	<p>Description of the bit 7 (ROMAE bit) in the Flash Access Status Register (FASTAT) is corrected.</p> <p>Error: An access command is issued to an address other than ROM program/erase addresses H'FD80 0000 to <b>H'FD9F FFFF</b> when the user boot MAT is selected.</p> <p>Correction: An access command is issued to an address other than ROM program/erase addresses H'FD80 0000 to <b>H'FD80 7FFF</b> when the user boot MAT is selected.</p>																								
Added in Rev. B	12-23	Figure 12.8 Command State Transitions in ROM Read Mode and P/E Mode	<p>Figure 12.8 Command State Transitions in ROM Read Mode and P/E Mode : Incorrect description is corrected.</p> <p>Error:</p> <p>Correction:</p>																								
Added in Rev. B	12-36	12.9.4 Reset during Programming or Erasure	<p>Description of Reset during Programming or Erasure is added.</p> <p>-Description:  <u>When a hardware reset by "L" level input to the RESET# pin, switching the power off, or a FCU reset by setting the FRESET bit in the FRESETR register, is executed during programming or erasure, the whole data in the programming or erasure area becomes undefined. When the data in an area have become undefined, erase the area before using it again.</u></p>																								

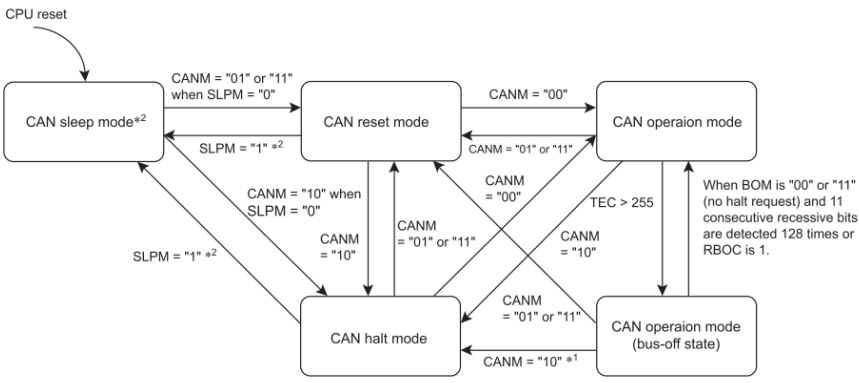
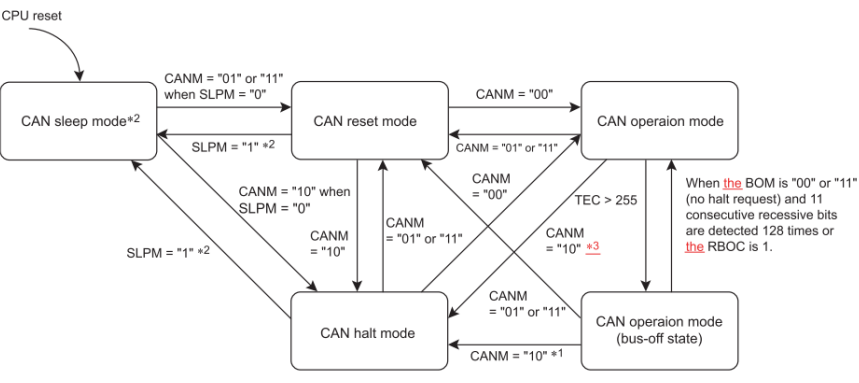
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Added in Rev. B	24-9	24.3.3 RSPiI Pin Control Register (SPiPCR)	<p>Description of the bit 5 (MOIFE bit) in the RSPiI Pin Control Register (SPiPCR) is corrected.</p> <p>Error:</p> <ul style="list-style-type: none"> <li>- When the MOIFE bit is cleared to "0", RSPiI outputs <u>on the MOSiI pin the last data unit from the previous serial transfer</u> during the SSL negation period.</li> <li>- 0: MOSiI output value equals final <u>data</u> from previous transfer</li> </ul> <p>Correction:</p> <ul style="list-style-type: none"> <li>- When the MOIFE bit is cleared to "0", RSPiI outputs <u>the final output level of the previous serial transfer to the MOSiI pin</u> during the SSL negation period (<u>When the CPHA bit is "0", MOSiI output value is undefined</u>).</li> <li>- 0: MOSiI output value equals final <u>output level</u> from previous transfer (<u>When the CPHA bit is "0", MOSiI output value is undefined</u>)</li> </ul>																								
Added in Rev. B	24-24	24.3.13 RSPiI Command Registers 0 to 3 (SPiCMD0 to SPiCMD3)	<p>Description of the bit 13 (SPNDEN bit) in the RSPiI Command Registers 0 to 3 (SPiCMD0 to SPiCMD3) is corrected.</p> <p>Error:</p> <ul style="list-style-type: none"> <li>- If the SPNDEN bit is "0", the RSPiI sets the next-access delay to 1 RSPCK.</li> <li>- 0: A next-access delay of 1 RSPCK</li> </ul> <p>Correction:</p> <ul style="list-style-type: none"> <li>- If the SPNDEN bit is "0", the RSPiI sets the next-access delay to 1 RSPCK + 2 Pck.</li> <li>- 0: A next-access delay of 1 RSPCK + 2 Pck</li> </ul>																								
Added in Rev. B	24-28	Table 24.7 MOSiI Signal Value Determination during SSL Negation Period	<p>Table 24.7 MOSiI Signal Value Determination during SSL Negation Period : Incorrect description is corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>MOIFE</th> <th>MOIFV</th> <th>MOSiI Signal Value during SSL Negation Period</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0, 1</td> <td><u>Final data from previous transfer</u></td> </tr> <tr> <td>1</td> <td>0</td> <td>Always "L"</td> </tr> <tr> <td>1</td> <td>1</td> <td>Always "H"</td> </tr> </tbody> </table> <p>Correction:</p> <table border="1"> <thead> <tr> <th>MOIFE</th> <th>MOIFV</th> <th>MOSiI Signal Value during SSL Negation Period</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0, 1</td> <td><u>Final output level of the previous transfer (When the CPHA bit is "0", MOSiI output value is undefined)</u></td> </tr> <tr> <td>1</td> <td>0</td> <td>Always "L"</td> </tr> <tr> <td>1</td> <td>1</td> <td>Always "H"</td> </tr> </tbody> </table>	MOIFE	MOIFV	MOSiI Signal Value during SSL Negation Period	0	0, 1	<u>Final data from previous transfer</u>	1	0	Always "L"	1	1	Always "H"	MOIFE	MOIFV	MOSiI Signal Value during SSL Negation Period	0	0, 1	<u>Final output level of the previous transfer (When the CPHA bit is "0", MOSiI output value is undefined)</u>	1	0	Always "L"	1	1	Always "H"
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Added in Rev. B	24-34	Figure 24.11 RSPiI Transfer Format (CPHA = "0")	<p>Figure 24.11 RSPiI Transfer Format (CPHA = "0") : Incorrect description is corrected.</p> <p>Error:</p> <p>Correction:</p>																								

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Added in Rev. B	24-34	Figure 24.12 RSPI Transfer Format (CPHA = "1")	<p>Figure 24.12 RSPI Transfer Format (CPHA = "1") : Incorrect description is corrected.</p> <p>Error:</p>																																																												
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Added in Rev. B	26-5	Table 26.3 Register Configuration	<p>The values after reset of the CANi Clock Select Register (CiCLKR) (i = 0 to 4) are corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>Register Name</th> <th>Abbreviation</th> <th>After Reset</th> <th>P4 Address</th> <th>Size</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>CAN0 Clock Select Register</td> <td>C0CLKR</td> <td>H'00</td> <td>H'FFFF 6847</td> <td>8, 16, 32</td> <td>26-16</td> </tr> <tr> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> </tr> <tr> <td>CAN1 Clock Select Register</td> <td>C1CLKR</td> <td>H'00</td> <td>H'FFFF 7847</td> <td>8, 16, 32</td> <td>26-16</td> </tr> <tr> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> </tr> <tr> <td>CAN2 Clock Select Register</td> <td>C2CLKR</td> <td>H'00</td> <td>H'FFFF 8847</td> <td>8, 16, 32</td> <td>26-16</td> </tr> <tr> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> </tr> <tr> <td>CAN3 Clock Select Register</td> <td>C3CLKR</td> <td>H'00</td> <td>H'FFFF 9847</td> <td>8, 16, 32</td> <td>26-16</td> </tr> <tr> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> </tr> <tr> <td>CAN4 Clock Select Register</td> <td>C4CLKR</td> <td>H'00</td> <td>H'FFFF A847</td> <td>8, 16, 32</td> <td>26-16</td> </tr> </tbody> </table>	Register Name	Abbreviation	After Reset	P4 Address	Size	Page	CAN0 Clock Select Register	C0CLKR	H'00	H'FFFF 6847	8, 16, 32	26-16	:	:	:	:	:	:	CAN1 Clock Select Register	C1CLKR	H'00	H'FFFF 7847	8, 16, 32	26-16	:	:	:	:	:	:	CAN2 Clock Select Register	C2CLKR	H'00	H'FFFF 8847	8, 16, 32	26-16	:	:	:	:	:	:	CAN3 Clock Select Register	C3CLKR	H'00	H'FFFF 9847	8, 16, 32	26-16	:	:	:	:	:	:	CAN4 Clock Select Register	C4CLKR	H'00	H'FFFF A847	8, 16, 32	26-16
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Added in Rev. B	26-16	26.3.2 CANi Clock Select Register (CiCLKR) (i = 0 to 4)	<p>The value after reset of the bit 4 in the CANi Clock Select Register (CiCLKR) (i = 0 to 4) is corrected.</p> <p>Error:</p> <div style="text-align: center;"> <table border="1"> <tr> <td>Bit:</td> <td>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>0</td> </tr> <tr> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>CCLKS</td> </tr> <tr> <td>After Reset:</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table> <p style="text-align: right;">&lt;After Reset: H'00&gt;</p> <table border="1"> <thead> <tr> <th>Bit</th> <th>Abbreviation</th> <th>After Reset</th> <th>R</th> <th>W</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>-</td> <td>0</td> <td>?</td> <td>0</td> <td>Reserved Bit Should be written with "0" and read as undefined value.</td> </tr> </tbody> </table> </div> <hr/> <td> <p>Correction:</p> <div style="text-align: center;"> <table border="1"> <tr> <td>Bit:</td> <td>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>0</td> </tr> <tr> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>CCLKS</td> </tr> <tr> <td>After Reset:</td> <td>0</td> <td>0</td> <td>0</td> <td>Undefined</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table> <p style="text-align: right;">&lt;After Reset: Undefined&gt;</p> <table border="1"> <thead> <tr> <th>Bit</th> <th>Abbreviation</th> <th>After Reset</th> <th>R</th> <th>W</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>-</td> <td>Undefined</td> <td>?</td> <td>0</td> <td>Reserved Bit Should be written with "0" and read as undefined value.</td> </tr> </tbody> </table> </div> </td>	Bit:	7	6	5	4	3	2	1	0		-	-	-	-	-	-	-	CCLKS	After Reset:	0	0	0	0	0	0	0	0	Bit	Abbreviation	After Reset	R	W	Description	4	-	0	?	0	Reserved Bit Should be written with "0" and read as undefined value.	<p>Correction:</p> <div style="text-align: center;"> <table border="1"> <tr> <td>Bit:</td> <td>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>0</td> </tr> <tr> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>CCLKS</td> </tr> <tr> <td>After Reset:</td> <td>0</td> <td>0</td> <td>0</td> <td>Undefined</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table> <p style="text-align: right;">&lt;After Reset: Undefined&gt;</p> <table border="1"> <thead> <tr> <th>Bit</th> <th>Abbreviation</th> <th>After Reset</th> <th>R</th> <th>W</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>-</td> <td>Undefined</td> <td>?</td> <td>0</td> <td>Reserved Bit Should be written with "0" and read as undefined value.</td> </tr> </tbody> </table> </div>	Bit:	7	6	5	4	3	2	1	0		-	-	-	-	-	-	-	CCLKS	After Reset:	0	0	0	Undefined	0	0	0	0	Bit	Abbreviation	After Reset	R	W	Description	4	-	Undefined	?	0	Reserved Bit Should be written with "0" and read as undefined value.
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Added in Rev. B	26-42	26.3.11 CANi Receive FIFO Pointer Control Register (CiRFPCR) (i = 0 to 4)	<p>Setting value of the bit 7 to 0 (CiRFPCR bit) in the CANi Receive FIFO Pointer Control Register (CiRFPCR) (i = 0 to 4) is corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>Bit</th> <th>Abbreviation</th> <th>After Reset</th> <th>R</th> <th>W</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>7 to 0</td> <td>CiRFPCR</td> <td>Undefined</td> <td>R</td> <td>W</td> <td>The CPU-side pointer for the receive FIFO is incremented by writing "H'FF"</td> </tr> </tbody> </table>	Bit	Abbreviation	After Reset	R	W	Description	7 to 0	CiRFPCR	Undefined	R	W	The CPU-side pointer for the receive FIFO is incremented by writing "H'FF"																																																																			
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Added in Rev. B	26-46	26.3.13 CANi Transmit FIFO Pointer Control Register (CiTFPCR) (i = 0 to 4)	<p>Setting value of the bit 7 to 0 (CiTFPCR bit) in the CANi Transmit FIFO Pointer Control Register (CiTFPCR) (i = 0 to 4) is corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>Bit</th> <th>Abbreviation</th> <th>After Reset</th> <th>R</th> <th>W</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>7 to 0</td> <td>CiTFPCR</td> <td>Undefined</td> <td>R</td> <td>W</td> <td>The CPU-side pointer for the transmit FIFO is incremented by writing "H'FF"</td> </tr> </tbody> </table>	Bit	Abbreviation	After Reset	R	W	Description	7 to 0	CiTFPCR	Undefined	R	W	The CPU-side pointer for the transmit FIFO is incremented by writing "H'FF"																																																																			
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Added in Rev. B	26-57	26.3.20 CANi Error Interrupt Factor Judge Register (CiEIFR) (i = 0 to 4)	<p>Description of the bit 7 (BLIF bit) in the CANi Error Interrupt Factor Judge Register (CiEIFR) (i = 0 to 4) is corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>Bit</th> <th>Abbreviation</th> <th>After Reset</th> <th>R</th> <th>W</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>BLIF</td> <td>0</td> <td>R</td> <td>W</td> <td>Bus Lock Detect Flag*<sup>1</sup> The BLIF bit is set to "1" if 32 consecutive dominant bits are detected on the CAN bus while the CAN module is in CAN operation mode. After the bit is set to "1", <u>redetection takes place under either of the following conditions:</u>  <ul style="list-style-type: none"> <li>After this bit is set to "0" from "1", recessive bits are detected.</li> <li>After this bit is set to "0" from "1", the CAN module enters CAN reset mode <u>or CAN halt mode</u> and then enters CAN operation mode again.</li> </ul>                     0: No bus lock detected 1: Bus lock detected                 </td> </tr> </tbody> </table> <p>Correction:</p> <table border="1"> <thead> <tr> <th>Bit</th> <th>Abbreviation</th> <th>After Reset</th> <th>R</th> <th>W</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>BLIF</td> <td>0</td> <td>R</td> <td>W</td> <td>Bus Lock Detect Flag*<sup>1</sup> The BLIF bit is set to "1" if 32 consecutive dominant bits are detected on the CAN bus while the CAN module is in CAN operation mode. After the bit is set to "1", <u>bus lock can be detected again after either of the following conditions is satisfied:</u>  <ul style="list-style-type: none"> <li>After this bit is set to "0" from "1", recessive bits are detected (<u>bus lock is resolved</u>).</li> <li>After this bit is set to "0" from "1", the CAN module enters CAN reset mode and then enters CAN operation mode again (<u>internal reset</u>).</li> </ul>                     0: No bus lock detected 1: Bus lock detected                 </td> </tr> </tbody> </table>	Bit	Abbreviation	After Reset	R	W	Description	7	BLIF	0	R	W	Bus Lock Detect Flag* <sup>1</sup> The BLIF bit is set to "1" if 32 consecutive dominant bits are detected on the CAN bus while the CAN module is in CAN operation mode. After the bit is set to "1", <u>redetection takes place under either of the following conditions:</u> <ul style="list-style-type: none"> <li>After this bit is set to "0" from "1", recessive bits are detected.</li> <li>After this bit is set to "0" from "1", the CAN module enters CAN reset mode <u>or CAN halt mode</u> and then enters CAN operation mode again.</li> </ul> 0: No bus lock detected 1: Bus lock detected	Bit	Abbreviation	After Reset	R	W	Description	7	BLIF	0	R	W	Bus Lock Detect Flag* <sup>1</sup> The BLIF bit is set to "1" if 32 consecutive dominant bits are detected on the CAN bus while the CAN module is in CAN operation mode. After the bit is set to "1", <u>bus lock can be detected again after either of the following conditions is satisfied:</u> <ul style="list-style-type: none"> <li>After this bit is set to "0" from "1", recessive bits are detected (<u>bus lock is resolved</u>).</li> <li>After this bit is set to "0" from "1", the CAN module enters CAN reset mode and then enters CAN operation mode again (<u>internal reset</u>).</li> </ul> 0: No bus lock detected 1: Bus lock detected
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<p>Added in Rev. B</p>	<p>26-72</p>	<p>Figure 26.9 Transition between CAN Operating Modes (i = 0 to 4)</p>	<p>Figure 26.9 Transition between CAN Operating Modes (i = 0 to 4) : Incorrect description is corrected.                      Error:</p>  <p>CANM, SLPM, BOM, RBOC: Bits in the CICTLR register</p> <p>Notes: *1 The transition timing from the bus-off state to CAN halt mode depends on the setting of the BOM bit.                      — When the BOM bit is "01", the state transition timing is immediately after entering the bus-off state.                      — When the BOM bit is "10", the state transition timing is at the end of the bus-off state.                      — When the BOM bit is "11", the state transition timing is at the setting of the CANM bit to "10" (CAN halt mode).                      *2 Write to the SLPM bit in CAN reset mode or CAN halt mode. When rewriting the SLPM bit, set only this bit to "0" or "1".</p> <hr/> <p>Correction:</p>  <p>CANM, SLPM, BOM, RBOC: Bits in the CICTLR register</p> <p>Notes: *1 The transition timing from the bus-off state to CAN halt mode depends on the setting of the BOM bit.                      — When the BOM bit is "01", the state transition timing is immediately after entering the bus-off state.                      — When the BOM bit is "10", the state transition timing is at the end of the bus-off state.                      — When the BOM bit is "11", the state transition timing is at the setting of the CANM bit to "10" (CAN halt mode).                      *2 Write to the SLPM bit in CAN reset mode or CAN halt mode. When rewriting the SLPM bit, set only this bit to "0" or "1".                      *3 The CAN module does not enter CAN halt mode while the CAN bus is locked in dominant state. Enter CAN reset mode instead.</p>

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Added in Rev. B	26-74	Table 26.9 Operation in CAN Reset Mode and CAN Halt Mode	<p>Table 26.9 Operation in CAN Reset Mode and CAN Halt Mode : Incorrect description is corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Receiver</th> <th>Transmitter</th> <th>Bus-Off</th> </tr> </thead> <tbody> <tr> <td>CAN reset mode (forcible transition) CANM = "11"</td> <td>CAN module enters CAN reset mode without waiting for the end of message reception.</td> <td>CAN module enters CAN reset mode without waiting for the end of message transmission.</td> <td>CAN module enters CAN reset mode without waiting for the end of bus-off recovery.</td> </tr> <tr> <td>CAN reset mode CANM = "01"</td> <td>CAN module enters CAN reset mode without waiting for the end of message reception.</td> <td>CAN module enters CAN reset mode after waiting for the end of message transmission*1*4.</td> <td>CAN module enters CAN reset mode without waiting for the end of bus-off recovery.</td> </tr> <tr> <td>CAN halt mode</td> <td>CAN module enters CAN halt mode after waiting for the end of message reception*2*3.</td> <td>CAN module enters CAN halt mode after waiting for the end of message transmission*1*4.</td> <td>                     [When the BOM bit is "00"]                      A halt request from a program will be acknowledged only after bus-off recovery.                       [When the BOM bit is "01"]                      CAN module enters automatically to CAN halt mode without waiting for the end of bus-off recovery (regardless of a halt request from a program).                      [When the BOM bit is "10"]                      CAN module enters automatically to CAN halt mode after waiting for the end of bus-off recovery (regardless of a halt request from a program).                      [When the BOM bit is "11"]                      CAN module enters CAN halt mode (without waiting for the end of bus-off recovery) if a halt is requested by a program during bus-off.                 </td> </tr> </tbody> </table> <p>Legend: BOM bit: Bit in CiCTLR register (i = 0 to 4)</p> <p>Notes: *1 If several messages are requested to be transmitted, mode transition occurs after the completion of the first transmission. In a case that the CAN reset mode is being requested during suspend transmission, mode transition occurs when the bus is idle, the next transmission ends, or the CAN module becomes a receiver.</p> <p>*2 If the CAN bus is locked at the dominant level, the program can detect this state by monitoring the BLIF bit in the CiEIFR register.</p> <p>*3 If a CAN bus error occurs during reception after CAN halt mode is requested, the CAN mode transits to CAN halt mode.</p> <p>*4 If a CAN bus error or arbitration lost occurs during transmission after CAN reset mode or CAN halt mode is requested, the CAN mode transits to the requested CAN mode.</p>	Mode	Receiver	Transmitter	Bus-Off	CAN reset mode (forcible transition) CANM = "11"	CAN module enters CAN reset mode without waiting for the end of message reception.	CAN module enters CAN reset mode without waiting for the end of message transmission.	CAN module enters CAN reset mode without waiting for the end of bus-off recovery.	CAN reset mode CANM = "01"	CAN module enters CAN reset mode without waiting for the end of message reception.	CAN module enters CAN reset mode after waiting for the end of message transmission*1*4.	CAN module enters CAN reset mode without waiting for the end of bus-off recovery.	CAN halt mode	CAN module enters CAN halt mode after waiting for the end of message reception*2*3.	CAN module enters CAN halt mode after waiting for the end of message transmission*1*4.	[When the BOM bit is "00"] A halt request from a program will be acknowledged only after bus-off recovery.  [When the BOM bit is "01"] CAN module enters automatically to CAN halt mode without waiting for the end of bus-off recovery (regardless of a halt request from a program). [When the BOM bit is "10"] CAN module enters automatically to CAN halt mode after waiting for the end of bus-off recovery (regardless of a halt request from a program). [When the BOM bit is "11"] CAN module enters CAN halt mode (without waiting for the end of bus-off recovery) if a halt is requested by a program during bus-off.
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CAN halt mode	CAN module enters CAN halt mode after waiting for the end of message reception.*2*3.	CAN module enters CAN halt mode after waiting for the end of message transmission.*1*2*4.	[When the BOM bit is "00"] A halt request from a program will be acknowledged only after bus-off recovery.  [When the BOM bit is "01"] CAN module enters automatically to CAN halt mode without waiting for the end of bus-off recovery (regardless of a halt request from a program). [When the BOM bit is "10"] CAN module enters automatically to CAN halt mode after waiting for the end of bus-off recovery (regardless of a halt request from a program). [When the BOM bit is "11"] CAN module enters CAN halt mode (without waiting for the end of bus-off recovery) if a halt is requested by a program during bus-off.																

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Added in Rev. B	28-11	28.3 Register Descriptions	<p>28.3 Register Descriptions : Incorrect description is corrected.</p> <p>Error: These flags are used to enable DMA transfer requests. Set these flags to "1" to enable a DMA transfer request, and set them to "0" to disable a <u>request</u>. To prevent incorrect DMA operation, only rewrite these bits from the <u>DMA transfer</u> masked state to the <u>DMA transfer</u> enabled state when DRI acquisition is enabled (DRliDCAPCNT.DCPEN bit = "1"). Do not rewrite from the <u>DMA transfer</u> enabled state to the <u>DMA transfer</u> masked state when DRI acquisition is enabled, since that can result in a <u>DMA request</u> not being handled.</p> <p>Correction: These flags are used to enable DMA transfer requests. Set these flags to "1" to enable a DMA transfer request, and set them to "0" to disable a <u>DMA transfer request</u>. To prevent incorrect DMA operation, only rewrite these bits from the <u>DMA transfer request</u> masked state to the <u>DMA transfer request</u> enabled state when DRI acquisition is enabled (DRliDCAPCNT.DCPEN bit = "1"). Do not rewrite from the <u>DMA transfer request</u> enabled state to the <u>DMA transfer request</u> masked state when DRI acquisition is enabled, since that can result in a <u>DMA transfer request</u> not being handled.</p>
Added in Rev. B	28-16	28.3.4 DRI0DIN DMA Transfer Enable Register (DRI0DINDEN)	<p>28.3.4 DRI0DIN DMA Transfer Enable Register (DRI0DINDEN) : Incorrect description is corrected.</p> <p>Error: Also note that it is only possible to rewrite the DRI0DINDEN register bits from the <u>transfer</u> masked state to the <u>transfer</u> enabled state when DRI acquisition is enabled (DRliDCAPCNT.DCPEN bit = "1"). Do not rewrite from the <u>transfer</u> enabled state to the <u>transfer</u> masked state when DRI acquisition is enabled.</p> <p>Correction: Also note that it is only possible to rewrite the DRI0DINDEN register bits from the <u>DMA transfer request</u> masked state to the <u>DMA transfer request</u> enabled state when DRI acquisition is enabled (DRliDCAPCNT.DCPEN bit = "1"). Do not rewrite from the <u>DMA transfer request</u> enabled state to the <u>DMA transfer request</u> masked state when DRI acquisition is enabled.</p>
Added in Rev. B	28-21	28.3.8 DRI0DEC DMA Transfer Enable Register (DRI0DEC DEN)	<p>28.3.8 DRI0DEC DMA Transfer Enable Register (DRI0DEC DEN) : Incorrect description is corrected.</p> <p>Error: If a DMA transfer request mask (disable) setting and an internal DMA transfer request occur at the same time, the DMA transfer request mask (disable) setting takes precedence. Also note that it is only possible to rewrite the DRI0DEC DEN register bits from the <u>transfer</u> masked state to the <u>transfer</u> enabled state when DEC counter operation is enabled (DRliDECnCNT.DECnEN bit = "1"). Do not rewrite from the <u>transfer</u> enabled state to the <u>transfer</u> masked state when DEC counter operation is enabled.</p> <p>Correction: If a DMA transfer request mask (disable) setting and an internal DMA transfer request occur at the same time, the DMA transfer request mask (disable) setting takes precedence. Also note that it is only possible to rewrite the DRI0DEC DEN register bits from the <u>DMA transfer request</u> masked state to the <u>DMA transfer request</u> enabled state when DEC counter operation is enabled (DRliDECnCNT.DECnEN bit = "1"). Do not rewrite from the <u>DMA transfer request</u> enabled state to the <u>DMA transfer request</u> masked state when DEC counter operation is enabled.</p>

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Added in Rev. B	28-27	28.3.12 DRI0 DMA Transfer Enable Register (DRI0TRMDEN)	<p>28.3.12 DRI0 DMA Transfer Enable Register (DRI0TRMDEN) : Incorrect description is corrected.</p> <p>Error: Controls the enabled/disabled states for DRI0 transfer related DMA transfer requests. If one of these bits is set to "1", the corresponding DMA transfer request signal output is enabled. If a DMA transfer mask (disable) is set at the same time as an internal DMA transfer request, the DMA transfer mask (disable) takes precedence. Also note that when DRI acquisition is enabled (DRIIDCAPCNT.DCPEN bit = "1"), the DRI0TRMDEN register may only be rewritten from the <u>transfer</u> masked state to the <u>transfer</u> enabled state. Do not rewrite any bits in this register from the <u>transfer</u> enabled state to the <u>transfer</u> masked state when DRI acquisition is enabled.</p> <p>Correction: Controls the enabled/disabled states for DRI0 transfer related DMA transfer requests. If one of these bits is set to "1", the corresponding DMA transfer request signal output is enabled. If a DMA transfer mask (disable) is set at the same time as an internal DMA transfer request, the DMA transfer mask (disable) takes precedence. Also note that when DRI acquisition is enabled (DRIIDCAPCNT.DCPEN bit = "1"), the DRI0TRMDEN register may only be rewritten from the <u>DMA transfer request</u> masked state to the <u>DMA transfer request</u> enabled state. Do not rewrite any bits in this register from the <u>DMA transfer request</u> enabled state to the <u>DMA transfer request</u> masked state when DRI acquisition is enabled.</p>																																								
Added in Rev. B	32-13	32.4.1 FlexRay Operation Control Register (FXROC)	<p>Description of the bit 2 (FBSEN bit) in the FlexRay Operation Control Register (FXROC) is corrected.</p> <p>Error: - <u>FRNVm<sub>n</sub></u> - <u>FRNVm<sub>n</sub></u></p> <p>Correction: - <u>FRNMv<sub>n</sub></u> - <u>FRNMv<sub>n</sub></u></p>																																								
Added in Rev. B	32-139	32.12.5 Configuration of NIT Start and Offset Correction Start	<p>32.12.5 Configuration of NIT Start and Offset Correction Start : Incorrect description is corrected.</p> <p>Error: For the FlexRay module the offset correction start is required to be the OCS bit in the FRGTUC4 register <u>o</u> the NIT bit <u>int</u> the FRGTUC4 register + 1 = k+1.</p> <p>Correction: For the FlexRay module the offset correction start is required to be the OCS bit in the FRGTUC4 register <u>≥</u> the NIT bit <u>in</u> the FRGTUC4 register + 1 = k+1.</p>																																								
Added in Rev. B	32-145	Table 32.8 State Transitions of FlexRay overall state Machine	<p>Table 32.8 State Transitions of FlexRay overall state Machine : Incorrect description is corrected.</p> <p>Error:</p> <table border="1"> <thead> <tr> <th>T#</th> <th>Condition</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>Hard reset</td> <td>All states</td> <td><u>DEFAULT CONFIG</u></td> </tr> <tr> <td>T2</td> <td>Command CONFIG, bits CMD3 to CMD0 in the FRSUCC1 register = B'0001</td> <td><u>DEFAULT CONFIG</u></td> <td>CONFIG</td> </tr> <tr> <td>:</td> <td>:</td> <td>:</td> <td>:</td> </tr> <tr> <td>T15</td> <td>Command CONFIG, bits CMD3 to CMD0 in the FRSUCC1 register = B'0001</td> <td>HALT</td> <td><u>DEFAULT CONFIG</u></td> </tr> </tbody> </table> <p>Correction:</p> <table border="1"> <thead> <tr> <th>T#</th> <th>Condition</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>Hard reset</td> <td>All states</td> <td><u>DEFAULT CONFIG</u></td> </tr> <tr> <td>T2</td> <td>Command CONFIG, bits CMD3 to CMD0 in the FRSUCC1 register = B'0001</td> <td><u>DEFAULT CONFIG</u></td> <td>CONFIG</td> </tr> <tr> <td>:</td> <td>:</td> <td>:</td> <td>:</td> </tr> <tr> <td>T15</td> <td>Command CONFIG, bits CMD3 to CMD0 in the FRSUCC1 register = B'0001</td> <td>HALT</td> <td><u>DEFAULT CONFIG</u></td> </tr> </tbody> </table>	T#	Condition	From	To	T1	Hard reset	All states	<u>DEFAULT CONFIG</u>	T2	Command CONFIG, bits CMD3 to CMD0 in the FRSUCC1 register = B'0001	<u>DEFAULT CONFIG</u>	CONFIG	:	:	:	:	T15	Command CONFIG, bits CMD3 to CMD0 in the FRSUCC1 register = B'0001	HALT	<u>DEFAULT CONFIG</u>	T#	Condition	From	To	T1	Hard reset	All states	<u>DEFAULT CONFIG</u>	T2	Command CONFIG, bits CMD3 to CMD0 in the FRSUCC1 register = B'0001	<u>DEFAULT CONFIG</u>	CONFIG	:	:	:	:	T15	Command CONFIG, bits CMD3 to CMD0 in the FRSUCC1 register = B'0001	HALT	<u>DEFAULT CONFIG</u>
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