

RENESAS TECHNICAL UPDATE

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

Product Category	MPU/MCU		Document No.	TN-R8C-A033B/E	Rev.	2.00
Title	Errata to notes of the port register		Information Category	Technical Notification		
Applicable Product	R8C/LA6A Group, R8C/LA5A Group, R8C/LA3A Group, R8C/LAPS Group		Lot No.	Reference Document		

This document describes corrections to the port Pi registers included in the following User's Manual: Hardware.

1. Applicable manuals and ports

Applicable Products	Applicable Manual and Page	Applicable Ports
R8C/LA6A Group	R01UH0051EJ0103 (Rev.1.03), Page 64 of 645	P1_0 to P1_1, P4_0 to P4_5, P6_0, and P7_0 to P7_6
R8C/LA3A Group	R01UH0024EJ0100 (Rev.1.00), Page 61 of 581	P0_0 to P0_7, P3_0 to P3_7, P7_0, and P7_2 to P7_7
R8C/LA5A Group	R01UH0024EJ0100 (Rev.1.00), Pages 61 of 581 and 70 of 581	P7_3 to P7_7
R8C/LAPS Group	R01UH0168EJ0100 (Rev.1.00), Page 59 of 411	P7_0, and P7_2 to P7_7

2-1. Corrections of R8C/LA6A Group

Table 7.2 Programmable I/O Ports Provided for Each Group

Programmable I/O Port	R8C/LA6A Group Total: 56 I/O pins								R8C/LA8A Group Total: 72 I/O pins							
	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
P0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P1	✓	✓	✓	✓	✓	✓	—	—	✓	✓	✓	✓	✓	✓	✓	✓
P2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P4	✓	✓	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓
P5	—	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	✓	✓	✓	✓	✓
P6	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	✓	✓	✓	✓	✓	✓
P7	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓
P8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P9	—	—	—	—	—	—	✓	✓	—	—	—	—	—	—	✓	✓

Notes:

- The symbol "✓" indicates a programmable I/O port.
- The symbol "—" indicates the settings should be made as follows:
 - Set 0 to the corresponding bits in the PDi (i = 1, 4 to 7, 9) register. When read, the content is 0.
 - Set 0 to the corresponding bits in the Pi (i = 1, 4 to 7, 9) register. When read, the content is 0.
 - Set 0 to the corresponding bits in the P7DRR register. When read, the content is 0.

When the bits in red boxes are read, the content is undefined. Other bits are 0.

2-2. Corrections of R8C/LA3A Group, R8C/LA5A Group

Table 7.2 Programmable I/O Ports Provided for Each Group

Programmable I/O Port	R8C/LA3A Group Total: 26 I/O pins								R8C/LA5A Group Total: 44 I/O pins							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
P0	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓
P2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P3	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓
P5	—	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	✓	✓	✓	✓	✓
P7	—	—	—	—	—	—	✓	—	—	—	—	—	—	✓	✓	✓
P8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P9	—	—	—	—	—	—	✓	✓	—	—	—	—	—	—	✓	✓

Notes:

1. The symbol “✓” indicates a programmable I/O port.
2. The symbol “—” indicates the settings should be made as follows:
 - Set 0 to the corresponding bits in the PDi (i = 0, 3, 5, 7, 9) register. When read, the content is 0.
 - Set 0 to the corresponding bits in the Pi (i = 0, 3, 5, 7, 9) register. When read, the content is 0.

When the bits in red boxes are read, the content is undefined. Other bits are 0.

2-3. Corrections of R8C/LA5A Group

7.5.2 Port Pi Register (Pi) (i = 0, 2, 3, 5, 7 to 9)

Address 00E0h (P0), 00E4h (P2), 00E5h (P3), 00E9h (P5 (1)),
00EDh (P7(2)), 00F0h (P8), 00F1h (P9(3))

Bit	b7	b6	b5	b4	b3	b2	b1	b0
Symbol	Pi_7	Pi_6	Pi_5	Pi_4	Pi_3	Pi_2	Pi_1	Pi_0
After Reset	X	X	X	X	X	X	X	X

Bit	Symbol	Bit Name	Function	R/W
b0	Pi_0	Port Pi_0 bit	0: Low level 1: High level	R/W
b1	Pi_1	Port Pi_1 bit		R/W
b2	Pi_2	Port Pi_2 bit		R/W
b3	Pi_3	Port Pi_3 bit		R/W
b4	Pi_4	Port Pi_4 bit		R/W
b5	Pi_5	Port Pi_5 bit		R/W
b6	Pi_6	Port Pi_6 bit		R/W
b7	Pi_7	Port Pi_7 bit		R/W

Notes:

1. P5_7 bit in the P5 register is reserved bit. When writing to the P5_7 bit, set to 0. When read, the content is 0.
2. Bits P7_3 to P7_7 in the P7 register is reserved bit. When writing to bits P7_3 to P7_7, set to 0. When read, the content is 0.
3. Bits P9_2 and P9_3 in the P9 register are reserved bits. When writing to bits P9_2 and P9_3, set to 0. When read, the content is 0.
Bits P9_4 to P9_7 in the P9 register are unavailable on this MCU. When writing to bits P9_4 to P9_7, set to 0. When read, the content is 0.

When read, the content is undefined.

2-4. Corrections of R8C/LAPS Group

7.5.2 Port Pi Register (Pi) (i = 2, 5, 7 to 9)

Address 00E4h (P2), 00E9h (P5 ⁽¹⁾), 00EDh (P7⁽²⁾), 00F0h (P8), 00F1h (P9⁽³⁾)

Bit	b7	b6	b5	b4	b3	b2	b1	b0
Symbol	Pi_7	Pi_6	Pi_5	Pi_4	Pi_3	Pi_2	Pi_1	Pi_0
After Reset	X	X	X	X	X	X	X	X

Bit	Symbol	Bit Name	Function	R/W
b0	Pi_0	Port Pi_0 bit	0: Low level 1: High level	R/W
b1	Pi_1	Port Pi_1 bit		R/W
b2	Pi_2	Port Pi_2 bit		R/W
b3	Pi_3	Port Pi_3 bit		R/W
b4	Pi_4	Port Pi_4 bit		R/W
b5	Pi_5	Port Pi_5 bit		R/W
b6	Pi_6	Port Pi_6 bit		R/W
b7	Pi_7	Port Pi_7 bit		R/W

Notes:

- P5_7 bit in the P5 register is reserved bit. When writing to the P5_7 bit, set to 0. When read, the content is 0.
- Bits P7_0, P7_2 to P7_7 in the P7 register are reserved bits. When writing to bits P7_0, P7_2 to P7_7, set to 0. When read, the content is 0.
- Bits P9_2 and P9_3 in the P9 register are reserved bits. When writing to bits P9_2 and P9_3, set to 0. When read, the content is 0.
Bits P9_4 to P9_7 in the P9 register are unavailable on this MCU. When writing to bits P9_4 to P9_7, set to 0. When read, the content is 0.

When read, the content is undefined.