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## RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU	Document No.	TN-RA*-A0054A/E	Rev.	1.00	
Title	RA2L1 Group, RA2E1 Group, RA2E2 Group, Addition of register definition for Flash		Information Category	Technical Notification		
Applicable Product	RA2L1 Group RA2E1 Group RA2E2 Group	Lot No.				
		All	Reference Document			

The following register definitions should be added.

1. UIDRn: Unique ID Register n (n=0 to 3)

Address: 0x0100\_1C00 + n x 4

Bit position: 31

Bit field: UID [31:0]

Value after reset:

Unique value for each chip

Bit	Symbol	Function	R/W
31:0	UID [31:0]	Unique ID	R

The UIDRn is a read-only register that stores a 16-byte ID code (unique ID) for identifying the individual MCU.

The UIDRn register should be read in 32-bit units.

2. PNRn: Part Numbering Register n (n=0 to 3)

Address: 0x0100\_1C10 + n x 4

 Bit position:
 31
 0

 Bit field:
 PNR [31:0]

Value after reset:

Value depends on the product

Bit	Symbol	Function	R/W
31:0	PNR [31:0]	Part Number	R

The PNRn is a read-only register that stores a 16-byte part numbering. The PNRn register should be read in 32-bit units.

Each byte corresponds to the ASCII code representation of the product part number as detailed in product list.

In case of the part number is "R7FA2L1AB2DFP" 16-byte part numbering is stored as follows.

Address 0x0100\_1C10: "P",0x50 in ASCII code

Address 0x0100\_1C11: "F",0x46 in ASCII code

Address 0x0100\_1C12: "D",0x44 in ASCII code

Address 0x0100 1C13: "2",0x32 in ASCII code

Address 0x0100\_1C14: "B",0x42 in ASCII code

Address 0x0100\_1C15: "A" ,0x41 in ASCII code

Address 0x0100\_1C16: "1" ,0x31in ASCII code

Address 0x0100\_1C17: "L" ,0x4C in ASCII code

Address  $0x0100\_1C18$ : "2" ,0x32in ASCII code

Address 0x0100\_1C19: "A" ,0x41 in ASCII code

Address 0x0100\_1C1A: "F" ,0x46 in ASCII code

Address  $0x0100\_1C1B$ : "7" ,0x37 in ASCII code

Address 0x0100\_1C1C: "R" ,0x52 in ASCII code

Address 0x0100\_1C1D: "\_"(space) ,0x20 in ASCII code

Address 0x0100\_1C1E: " $\_$  "(space) ,0x20 in ASCII code

Address 0x0100\_1C1F: "\_ "(space) ,0x20 in ASCII code

## 3. MCUVER: MCU Version Register

Address: 0x0100\_1C20

 Bit position:
 7
 6
 5
 4
 3
 2
 1
 0

 Bit field:
 MCUVE [7:0]

 Value after reset:
 Value depends on the chip

Bit	Symbol	Function	R/W
7:0	MCUVE [7:0]	MCU Version	R

The MCUVER is a read-only register that stores a MCU version. The MCUVER register should be read in 8-bit units.

The higher the value, the newer MCU version.