

RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU	Document No.	TN-RA*-A0045A/E	Rev.	1.00
Title	RA4E1 Group, RA6E1 Group, numbers of IO ports		Information Category	Technical Notification	
Applicable Product	RA4E1 Group RA6E1 Group	Lot No.	Reference Document	RA4E1 Group User's Manual Hardware Rev.1.00 RA6E1 Group User's Manual Hardware Rev.1.00	
		All			

The numbers of IO ports are described in UM.

RA4E1

1. Overview

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Table I/O ports

Feature	Functional description
I/O ports	<ul style="list-style-type: none"> ● I/O ports for the 64-pin LQFP <ul style="list-style-type: none"> - I/O pins : 43 - Input pins : 1 - Pull-up resistors : 44 - N-ch open-drain outputs : 43 - 5-V tolerance : 9 ● I/O ports for the 48-pin QFN <ul style="list-style-type: none"> - I/O pins : 29 - Input pins : 1 - Pull-up resistors : 30 - N-ch open-drain outputs : 29 - 5-V tolerance : 4

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Table Functional comparison

Parts number		R7FA4E10D2CFM R7FA4E10B2CFM	R7FA4E10D2CNE R7FA4E10B2CNE
I/O ports	I/O pins	43	29
	Input pins	1	1
	Pull-up resistors	44	30
	N-ch open-drain outputs	43	29
	5-V tolerance	9	4

RA6E1

1. Overview

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Table I/O ports

Feature	Functional description
I/O ports	<ul style="list-style-type: none"> ● I/O ports for the 100-pin LQFP <ul style="list-style-type: none"> - I/O pins : 75 - Input pins : 1 - Pull-up resistors : 76 - N-ch open-drain outputs : 75 - 5-V tolerance : 14 ● I/O ports for the 64-pin LQFP <ul style="list-style-type: none"> - I/O pins : 41 - Input pins : 1 - Pull-up resistors : 42 - N-ch open-drain outputs : 41 - 5-V tolerance : 9 ● I/O ports for the 48-pin QFN <ul style="list-style-type: none"> - I/O pins : 27 - Input pins : 1 - Pull-up resistors : 28 - N-ch open-drain outputs : 27 - 5-V tolerance : 4

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Table Functional comparison

Parts number		R7FA6E10F2CFP R7FA6E10D2CFP	R7FA6E10F2CFM R7FA6E10D2CFM	R7FA6E10F2CNE R7FA6E10D2CNE
I/O ports	I/O pins	75	41	27
	Input pins	1	1	1
	Pull-up resistors	76	42	28
	N-ch open-drain outputs	75	41	27
	5-V tolerance	14	9	4