RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-SH7-A902A/E	Rev.	1.00
Title	Additional precautions on using pins		Information Category	Technical Notification		
		Lot No.				
Applicable Product	See below.	All lots	Reference Document	See below.		
We added pr	ecautions on using pins as below to	User's Manual for Ha	rdware for the ap	pplicable products.		
[Additional D	escription					
-	y edge input function for the pin fun	ction on the table belo	w, we recommer	d the use of falling edge	e detectio	n.
•	he conditions that power supply var			0.0		
	ceptible to noise. In the case, the pir	-				
	ute sufficient evaluation after reviewi	-			ation or n	oise.
		-				
 Redu 	ction method 1 : Please take me	asures in order not to	generate noise f	or the power supply and	l input sig	inals
	as much as pos	sible.				
• Redu	ction method 2 : Please specify	a value which makes t	he steeper slope	of falling input signals t	han 0 1 i	ıs/V
	(reference value					
		<i>b)</i> 4000.				
Redu	ction method 3 : Please execute	the process consideri	ng the noise cou	ntermeasure in software	9	
	(e.g. ignoring th	e abnormal value dete	cted unintention	ally by edge detection).		
	Pin Function	N	lethods to Reduc	e Noise Influence		
TP01A to TP01D, TP02A to TP02D,		Methods to Reduce Noise Influence You can eliminate the noise influence by using digital filtering function.				
TP03A to TP03D, TP04A to TP04D						
TIOC0A to TIOC0D, TIOC1A, TIOC1B, TIOC2A, TIOC2B, TIOC3A to TIOC3D,		Specify a value which makes the steeper slope of falling input signals than 0.1 us/V (reference value) does.				
TIOC4A to TIOC4D, TIC5U to TIC5W, TIOC6A to TIOC6D, TIOC7A to TIOC7D		Please execute the process considering the noise countermeasure in software (e.g. Ignoring the abnormal value detected unintentionally by edge detection).				
	o TCLKD	Specify a value which makes the steeper slope of falling input signals				
RSPCK	to RSPCK3	than 0.1 us/V (refere	nce value) does			

[Applicable Products and Reference Documents]

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