Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

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RENESAS TECHNICAL UPDATE

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Product Category	MPU&MCU			Document No.	TN-SH7-A664A/E	Rev.	1.00	
Title	SH7720,SH7721,SH7727 Hardware Manual About clock accuracy of USBH			Information Category	Technical Notification			
Applicable				Lot No.	Reference Document	SH7720,SH7721 hardware manual Rev2.00 (REJ09B0033-0200) Rev3.00 (REJ09B0033-0300) SH7727 hardware manual Rev5.00 (REJ09B0254-0500)		
Product	SH7720 Group SH7721 Group SH7727 Group		All					
				1				
	-		-	frequency of	USB host contro	oller (USBH) of the SH7	720 grou	ıp,
the SH7721	I group, and t	he SH7727 gro	up.					
	ov of the LISB	clock when the	LISP bast contro	llor is used i	providos "min 47	0MHz may 48 1MHz" f	or	
	-		following regulati			.9MHz,max 48.1MHz" f	01	
		-	cal Characteristics		SD2.0 Stanuaru	DOOK.		
			which are not high:		<u>ام</u> "			
		le loi devices w lax 12.0300 Mt	-	speed capar				
However, th	nere is the foll	owing regulatio	ns for the USB ho	ost as SOF tr	ransmission timir	ng, and it is necessary to	o input	
"min 47.976l	MHz,max 48.0)24MHz" to sati	sfy this.					
"Frame	Interval Mir	n 0.9995 ms	Max 1.0005 ms	5"				
Therefore,	we will revise	regulations of "	EXTAL_USB cloc	k frequency	(48MHz)" of "US	B module signal timing	" as follo	WS.
(1) USB	clock frequer	ncy, when USB	function controlle	r (USBF) is ເ	used.			
"mi	n 47.9MHz, m	ax 48.1MHz".						
(2) USB	clock frequer	ncy, when USB	host controller (U	SBH) is use	d.			
"mi	n 47.976MHz,	, max 48.024Mł	Hz".					
However, e	ven if the cloc	k frequency for	USB is "min 47.9	MHz, max 4	8.1MHz", it see	ems that there is no pro	blem	
in the comm	nunication for	the application	(the isochronous	s transfer is r	not used or the U	ISB hub is not used)		
that doesn't	t need a strict	SOF interval in	the USB host.					

