Device Support Notice for
"Renesas Electronics
RL78 Family G12, G13, G14, I1A" Series

Dear Valued Wave Technology Customers,

We are pleased to announce our support for the "Renesas Electronics RL78 G12, G13, G14, I1A Series" on our Y3000 product line.

We had announced partial support for the same family of products in the past, and now we will be supporting even more packages.

Both RL78/G14 and RL78/G13 are loaded with a RL78 CPU core that is based on the 78KOR CPU core and have been broadly used in various consumer and industrial applications.

The RL78 CPU core in RL78/G14 enables the manufacturing of low power consumption and multi-functional consumer and industry applications without having to add external components.

RL78/I1A is a 16-bit microcontroller that can control LED, power and communications of illumination devices with only one chip. It has broad applications, from home to building to shop illumination, enabling a centralized control of multiple devices.

See below for more information on RL78:
 http://japan.renesas.com/products/mpumcu/rl78/

The following is the Wave Technology corresponding product information:

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Environment	Socket　Adapter	Target Package	Device Series			
			G13	G14	G12	I1A
Y3000 Series	Y30R4SSO020A	SSOP20(7.62mm)	◎			
	Y30R4SSO020B	SSOP20(5.72mm)			◎	◎
	Y30R4SSO030A	SSOP30	◎			◎
	Y30R4QFN040A	WQFN40	○			
	Y30R4QFP044A	LQFP44	◎			
	Y30R4QFN048A	WQFN48	○			
	Y30R4QFP064A	LQFP64(10×10)	○	◎		
	Y30R4QFP064B	LQFP64(12×12)	◎			
	Y30R4QFP100A	LQFP100	◎	◎		

◎ ＝ new support

○ ＝ already supported

Processing Time (Reference Values)

Device		Capacity	BLANK	PROGRAM	VERIFY	ERASE
G13	R5F100LEAFB	64KB	3sec	9sec	7sec	4sec
	R5F100LJAFB	256KB	3sec	20sec	14sec	5sec
	R5F100LLAFB	512KB	3sec	35sec	24sec	7sec
G14	R5F104LEAFB	64KB	3sec	9sec	6sec	4sec
	R5F104PJAFB	256KB	3sec	20sec	14sec	5sec
G12	R5F1026AASP	16KB	3sec	5sec	4sec	5sec
I1A	R5F1076CGSP	32KB	3sec	7sec	5sec	4sec
	R5F107ACGSP	32KB	3sec	7sec	5sec	4sec
	R5F107AEGSP	64KB	3sec	8sec	7sec	4sec

※Processing time depends on Write data

Supports WRITE to data flash and security flag setting

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We will continue to support other devices in this family.

See below for the Renesas Electronics product support list:
http://www.wavetechnology.co.jp/renesas.html

For further assistance, please contact us.

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Wave Technology

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