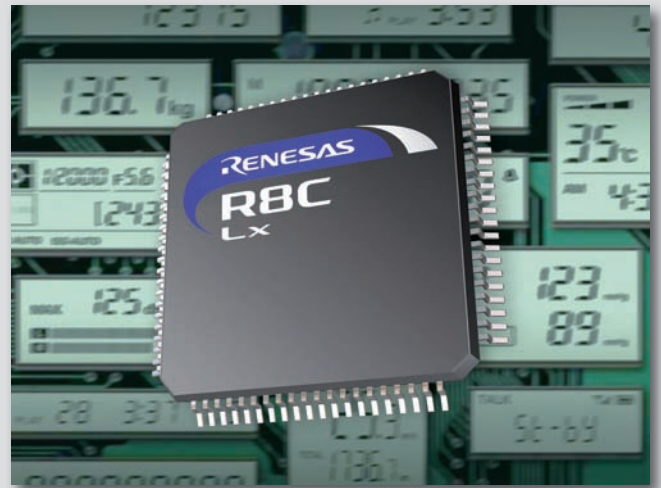# R8C/Lx-SLP Microcontrollers
with 10 nA STOP Current

The exciting new R8C/Lx Super Low Power microcontrollers from Renesas bring new levels of extremely low power to a wide range of LCD microcontroller applications, such as water and gas meters, heating controllers, blood pressure meters, smart sensors, and many many more…

- Huge range of LCD devices
- 1.8 V – 5.5 V operation
- 1.8 V – 5.5 V flash program / erase
- Full Real Time Clock Calendar with alarm, regulator interrupt and calibration functions
- 1.8 V 10-bit ADC with Gain Amplifier & on chip voltage Reference
- On chip temp sensor
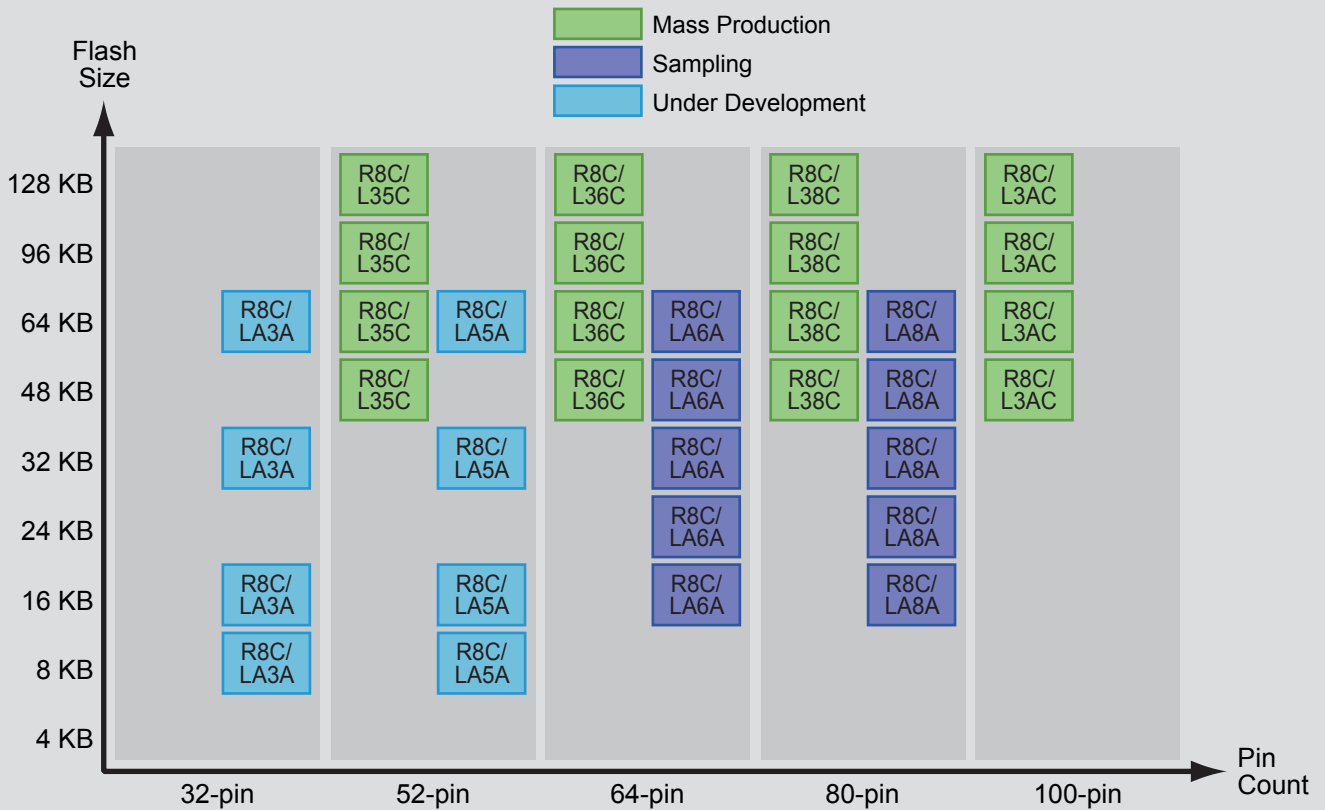- 2 channel low power comparators

Save power with the R8C/Lx-SLP's market leading power consumption

- 10 nA Power off mode operation
- 1.2 µA with RTC working (SRAM and I/O retained)
- 3.2 µA with RTC & LCD working
- 4.7 mA at 20 MHz, 5 V
- ▶ **Samples available now of the 52- & 64-pin versions**

SRAM	R8C CPU	Flash
Timer RB	Data Flash 2 x 1 kbytes	Ring Oscillator
Timer RB	USART	12 ch 10-bit ADC
Timer RC	UART FC	
Timer RJ	SSU FC	2 ch Comperator
RTC (RH)	Watchdog	40 x 4 LCD
Timer RJ	Timer RJ	
Temperature Sensor	LVD	POR
72 I/O (10 Iol / Ioh = +/- 20 m A)		

R8C/Lx Roadmap

Flash Size

Legend	
🟩	Mass Production
🟦	Sampling
🟦	Under Development

Flash Size	32-pin	52-pin		64-pin		80-pin		100-pin
128 KB		R8C/L35C		R8C/L36C		R8C/L38C		R8C/L3AC
96 KB		R8C/L35C		R8C/L36C		R8C/L38C		R8C/L3AC
64 KB	R8C/LA3A	R8C/L35C	R8C/LA5A	R8C/L36C	R8C/LA6A	R8C/L38C	R8C/LA8A	R8C/L3AC
48 KB		R8C/L35C		R8C/L36C	R8C/LA6A	R8C/L38C	R8C/LA8A	R8C/L3AC
32 KB	R8C/LA3A		R8C/LA5A		R8C/LA6A		R8C/LA8A	
24 KB					R8C/LA6A		R8C/LA8A	
16 KB	R8C/LA3A		R8C/LA5A		R8C/LA6A		R8C/LA8A	
8 KB	R8C/LA3A		R8C/LA5A					
4 KB								

Pin Count

R8C/Lx-SLP Low cost tools

E8a – In circuit debugger:

In circuit debugger supporting all of the R8C family (and many H8 and M16C micro-controllers) including the R8C/Lx-SLP.

Ordering code: **R0E0008AKCE00**

R8C/Lx RSK – Evaluation board:

Contains everything needed for evaluation and development of projects using the R8C/Lx-SLP, including a R8C/Lx-SLP evaluation board, E8a on chip debugger, a copy of the High performance Embedded Workshop (HEW) development environment and an evaluation compiler package, (unlimited for 60 days then code limited to 64k).

Ordering code: **R0K502LA8S000BE – Available October 2010**

Flash Development Toolkit

Flash programming software for the PC Can be downloaded Free of Charge from our website at www.renesas.com

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