

To our customers,

Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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Applications

血糖仪

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<http://cn.renesas.com/applications>



概要

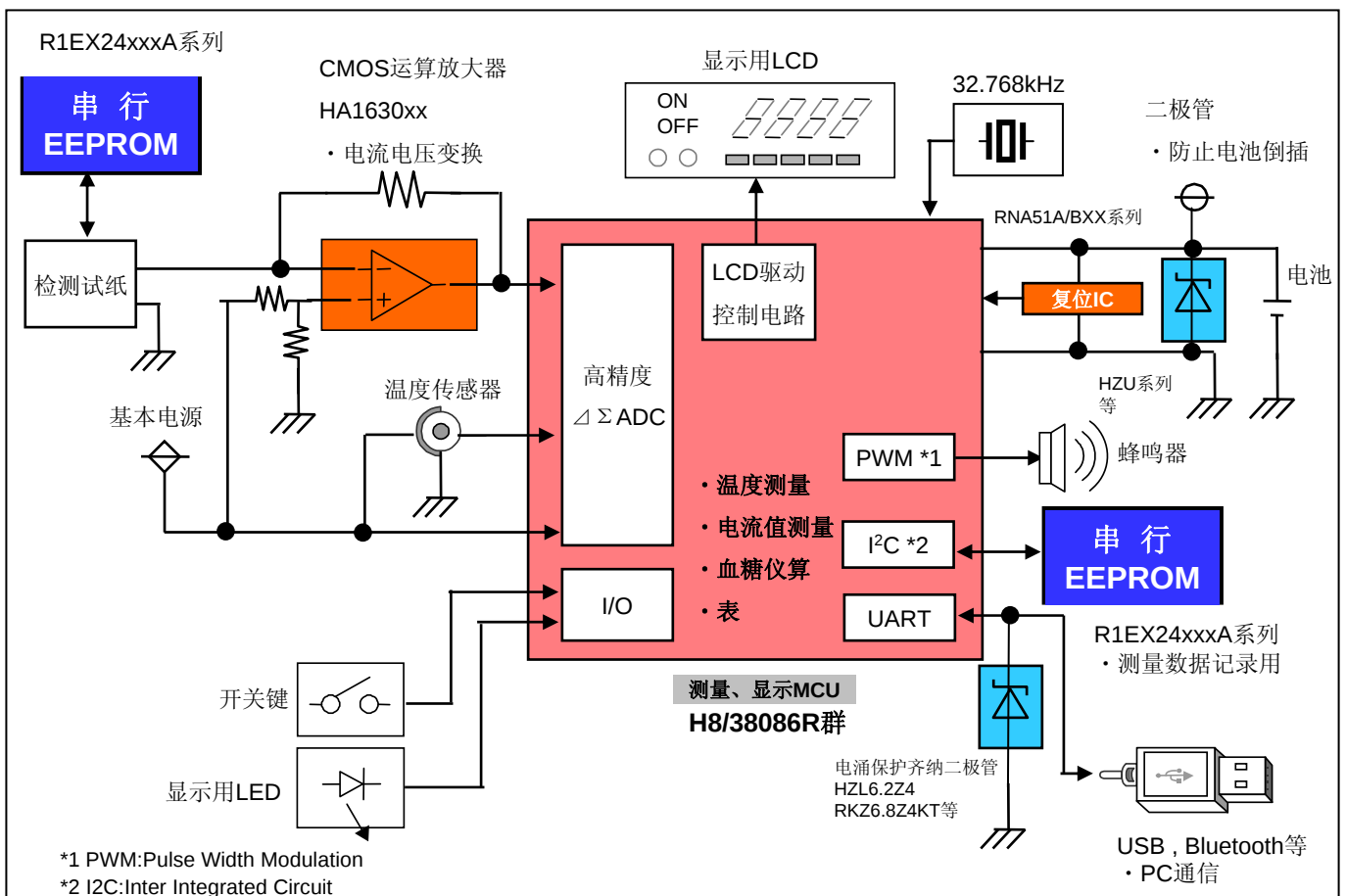
血糖仪之前一直在欧美等地广泛流行，不过随着包括日本在内的亚洲诸国因饮食欧美化，为了预防糖尿病，对它的需求逐渐增强。因为一天要测量多次，便于携带的小型装置及电池的高寿命化成为所需。另外，糖尿病患者一般视力不好，必须要用大型的液晶显示屏来显示测量值。而测出来的数据需要和医院进行信息共享，因此需要能够和电脑进行通信的USB或Bluetooth功能。

测量时，根据血糖值，微小的电流从检测试纸处被输出，由运算放大器得出电流转换成电压的值，并通过高精度A/D转换器读取出来。为了测量血糖值，A/D转换器需要具有12位以上的分辨率。另外，为了实现装置的小型化、电池的高寿命化，必须具有低功耗。

瑞萨的H8/Super Low Power MCU，内置了最适合血糖值测量的高精度14位A/D转换器。此外，通过内置血糖仪所必需的外围元件，实现了装置的低成本，并改善了电池寿命。

系统框图

2009年12月最新信息



所推荐的瑞萨元件

2009年12月最新信息

Block	半导体	推荐产品名	特点等
主控制部分	MCU	H8/38086R群	内置LCD驱动器、低功耗、14位A/D
	EEPROM	R1EX24xxxA系列	I ² C总线接口
	复位IC	RNA51Axx/Bxx系列	CMOS复位IC
通用 浪涌吸收 电路保护等	齐纳二极管	HZU系列	2引脚表面贴装
		HZMxNB系列	3引脚（内有一个元件）表面贴装
		HZ/HZS系列	2引脚玻璃插入式外形
	开关二极管	HSU119/HSC119	2引脚表面贴装
		HSM2838C、HSM123	3引脚（内有两个元件）表面贴装
		1S2076、1SS119	2引脚玻璃插入式外形
	肖特基二极管	HRC0103C	2引脚表面贴装（低VF、低漏电流）
		HRB0502A	3引脚表面贴装（低VF）
		HRV103A、RKR104BKH	2引脚小型表面贴装（I _o =1A）
USB接口	浪涌保护用 齐纳二极管	HZL6.2Z4, HZL6.8Z4	低电容型 内有一个元件
		RKZ6.8Z4KT	低电容型 内有四个元件
传感器部分	CMOS运算放大器	HA1630xx系列	小型外形、低功耗
检测试纸	EEPROM	R1EX24xxxA系列	I ² C总线接口

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