

To our customers,

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## Old Company Name in Catalogs and Other Documents

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On April 1<sup>st</sup>, 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.

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

April 1<sup>st</sup>, 2010  
Renesas Electronics Corporation

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

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#### 概要



LCD直接驱动，是由“H8SX+SRAM（或SDRAM）+LCD面板”构成，无需LCD控制器就可显示图像的系统，应用于家电产品及工业设备中搭载有LCD面板的产品，有助于低价开发。

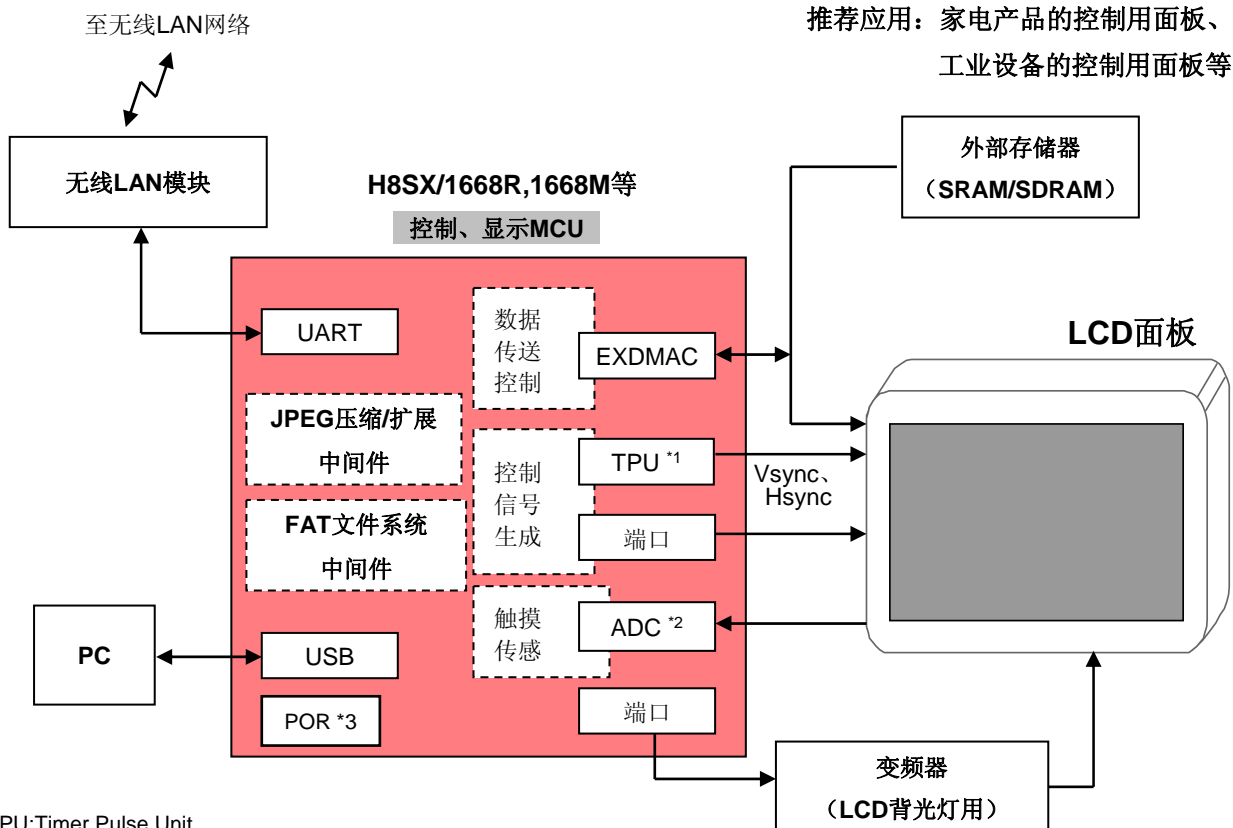
瑞萨产品不仅支持JPEG压缩/扩展、FAT文件系统的中间件及无线LAN模块，还提供系统整体解决方案。另外，还可以支持至VGA级的LCD面板，兼作触摸屏从而实现简单的操作。

瑞萨MCU中的H8SX/1668R群及H8S/2456群等产品，集成了EXDMAC，在向LCD面板传送图像数据的同时，可由CPU控制/处理数据。使用了该EXDMAC后，内部总线和外部总线各自独立工作，无需LCD控制器就可控制LCD面板。

#### 系统框图

2010年1月最新信息

推荐应用：家电产品的控制用面板、工业设备的控制用面板等



\*1 TPU: Timer Pulse Unit

\*2 ADC: Analog to Digital Converter

\*3 POR: Power On Reset (H8SX/1668M有)

※也有作为MCU外围IC的复位IC (RNA519xx系列)

※没有内置POR功能的MCU，需要外置复位IC

## 所推荐的瑞萨元件

2010年1月最新信息

Block	半导体	推荐产品名	特点等
控制MCU	MCU	H8SX/1668R,1668M群	3.3V工作、EXDMAC、各种外围功能、LVD/POR (仅H8SX/1668M)、LQFP-144、LFBGA-176
		H8SX/1658R,1658M群	3.3V工作、EXDMAC、各种外围功能、LVD/POR (仅H8SX/1658M)、LQFP-120
		H8SX/1665,1665M群	3.3V工作、EXDMAC、各种外围功能、LVD/POR (仅H8SX/1665M)、LQFP-144、LGA-145
		H8SX/1655,1655M群	3.3V工作、EXDMAC、各种外围功能、LVD/POR (仅H8SX/1655M)、LQFP-120
		H8SX/1648G群	3.3V工作、EXDMAC、各种外围功能、BP-176
		H8S/2378群	3.3V工作、EXDMAC、各种外围功能
		H8S/2456群	3.3V工作、EXDMAC、各种外围功能、LQFP-144、TLP-145V
MCU外围	复位IC	RNA519xx系列	检测电压可变

## 相关软件

名称	型号名
JPEG解码库	ROM8100JP0010RRC
JPEG编码库	ROM8100JP0020RRC
FAT文件系统中间件 (开发套件)	M3S-F16LBH3K
FAT文件系统中间 (量产许可)	M3S-F16LBH3S

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