

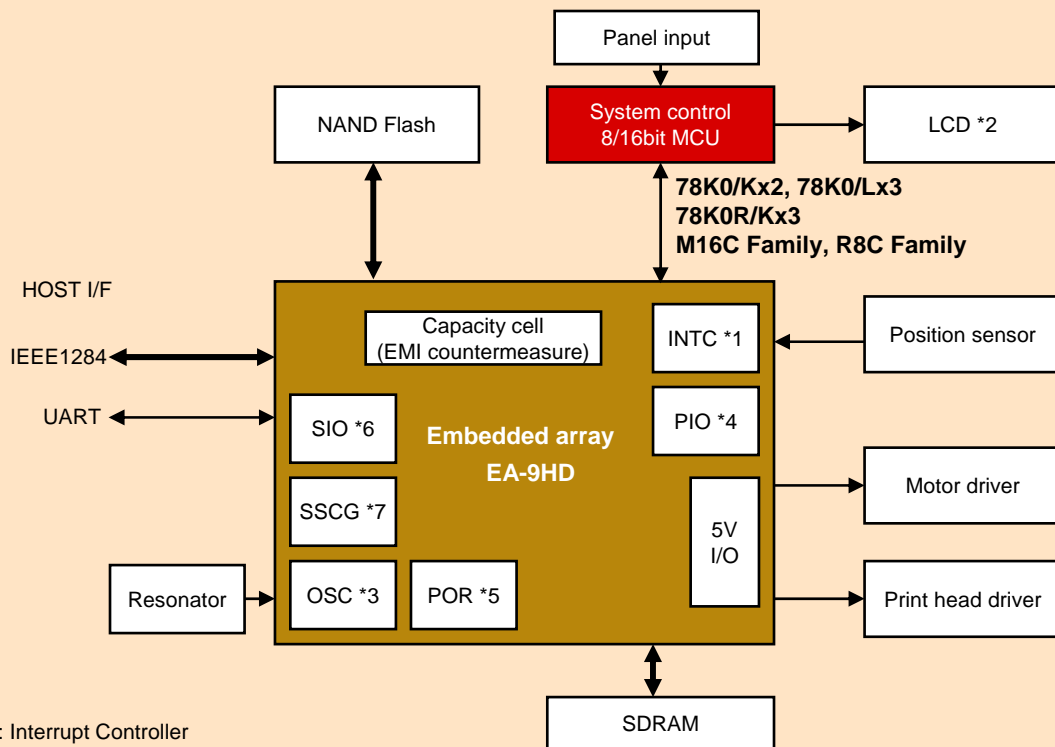
## Overview



Terminal printers must operate reliably and be expandable and flexible. Our EA-9HD embedded array can be used to easily create hardware logic, making it ideal for this market.

The EA-9HD is especially suitable for operating external drivers such as a MOSFET, because it can perform 5 V full-swing output simply by adding a 5 V power supply. A capacity cell or SSCG (Spread-Spectrum Clock Generator) can be incorporated to reduce EMI noise. Furthermore, having an on-chip power-on reset (POR) circuit means that no external reset IC is required.

## System Block Diagram



- \*1 INTC : Interrupt Controller
- \*2 LCD : Liquid Crystal Display
- \*3 OSC : Oscillator
- \*4 PIO : Programmed I/O
- \*5 POR : Power on Reset
- \*6 SIO : Serial I/O
- \*7 SSCG : Spread Spectrum Clock Generator

**Recommended Products**

As of July 2010

Block	Semiconductor device	Recommended products	Features, etc.
Embedded array	ASIC	EA-9HD	High-speed embedded array: low EMI noise achieved by mounting capacity cells (capacitors), 0.35 um CMOS process, high density through 3-/4-layer wiring channel-less structure (SOG)
System control MCU	MCU	78K0/Kx2	8-bit All Flash microcontroller: wealth of on-chip peripheral functions such as a reset circuit and on-chip oscillator; low power consumption, 30 to 80 pins
		78K0/Lx3	8-bit All Flash microcontroller: wealth of on-chip peripheral functions such as a segment LCD, reset circuit, and oscillator; low power consumption, 48 to 80 pins
	78K0R	78K0R/Kx3	16-bit All Flash microcontroller: wealth of on-chip peripheral functions such as a reset circuit and on-chip oscillator; high-end CPU core, 64 to 144 pins
	MCU	M16C Family	High ROM code efficiency, extensive EMI/EMS noise immunity, ultra-low power consumption, high-speed processing in actual applications, and numerous and varied integrated peripherals
R8C Family		Timer, 5 V operation, small package, LCD control	

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