

Syringe Pump

AUTOMATIC
INFUSION DEVICE



#Medical Instruments

Ventilator



#Medical Equipment

RA8875

**Elevator
Display**

#Industrial Control
#For WQVGA / WVGA



RA8871M/RA8873M

Speedmeter



#Instrumentation

ENJOY
A SPEED

#RA8876M/77
High Resolution LCD

Animation Maker

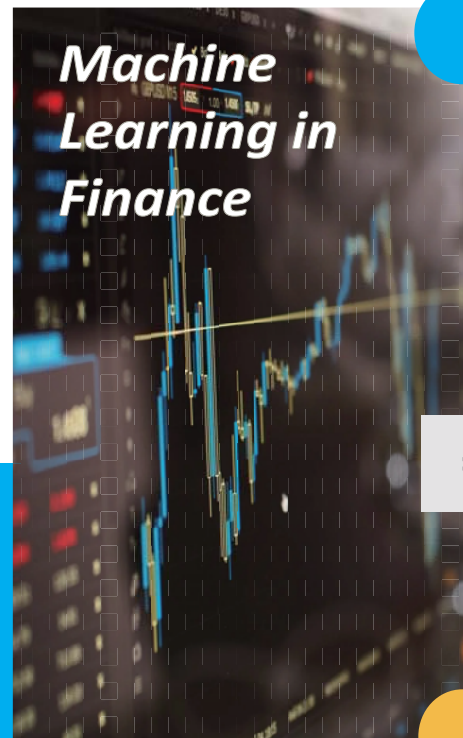
GRAPHICS ENGINE FOR
AVI / Motion JPEG



#Animation Processor

#RA8889

**Machine
Learning in
Finance**



R
A
I
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#FINANCIAL



RA8889

Support AVI (Motion JPEG) for video display

Easy to create **Animation**

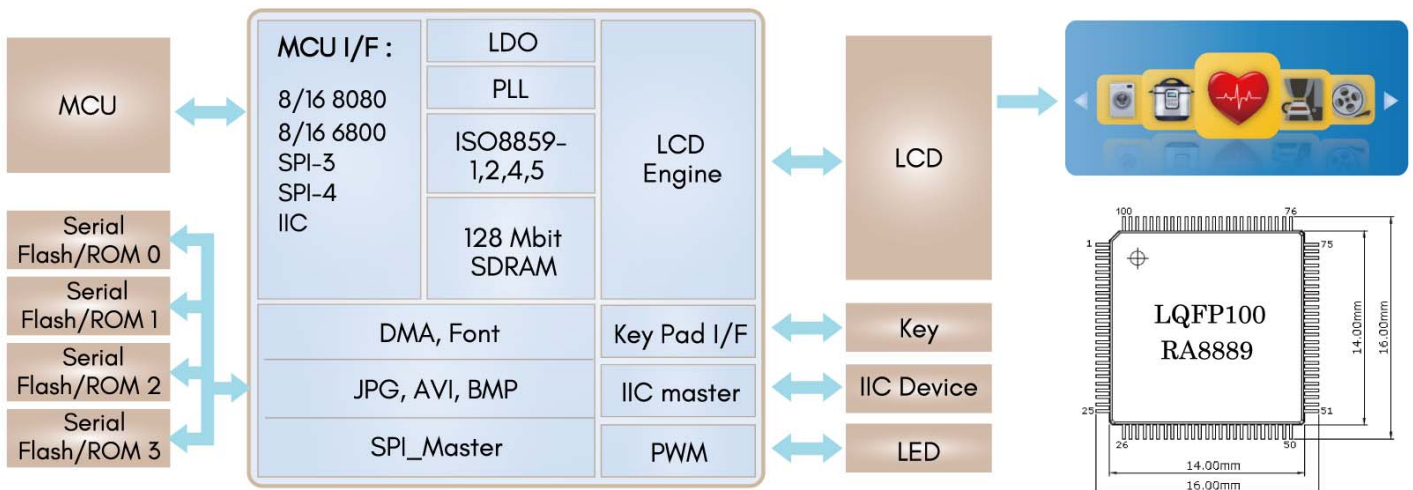
★ Application

- Medical Appliances
- Industrial Machines
- Elevator Control
- IA Products
- Measurement Equipments
- Financial Machines
- Home Appliances

★ Features Summary

- Resolution up to 1366 x 800
- Supports Mono / 256 / 65K /16.7M colors
- Supports SPI 3 | 4, IIC Serial MCU I/F
- Programmable Text / Graphic Cursor
- Embedded ASCII Font
- Supports Alpha-Blend
- Build-in Media decoder unit

Application Diagram



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RA8876M/77

for High Resolution LCD



RA8871M/73M

for WQVGA / WVGA LCD

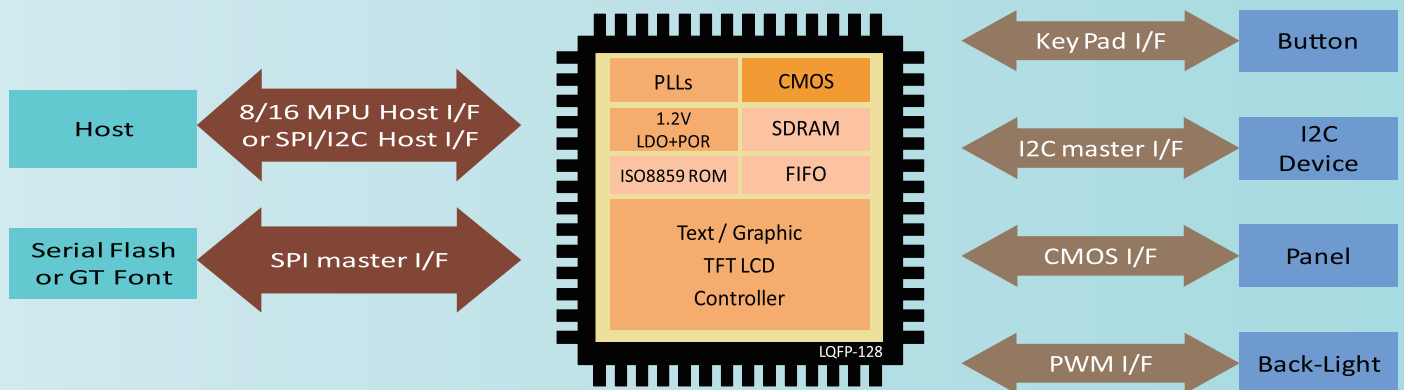


Features Summary

- Resolution up to 480x320/800x480/1366x768
- Supports Mono / 256 / 4K / 65K / 16.7M colors
- Supports CMOS TTL / LVDS IF
- Supports High Speed 3|4, IIC Serial MCU I/F
- Supports DMA Function
- Embedded ASCII Font. Supports Ext. Font Code IC
- Supports Alpha-Blend, PIP, BTE
- Geometric Drawing Engine

產品特色

- 支援高解析 TFT LCD 最高 1366x768
- 支援黑白 / 256 / 4K / 65K / 16.7M 色
- 支援 CMOS TTL / LVDS 輸出介面
- 支援高速傳輸三線或四線式及 IIC 串列 MCU 介面
- 支援 DMA 功能，硬體可自動快速更新顯示畫面
- 內建 ASCII 字庫且可外接字庫 IC
- 子母畫面顯示，雙圖層淡入淡出及 BTE 功能
- 硬體處理幾何圖形，支援畫線. 畫圓. 圖層捲動. 旋轉功能



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STN LCD Controller



Function	RA8806A	RA6963	RA8835/8835A
Panel Resolution	128x64~320x240 (Dual Pages) 320x480 / 640x240 (Single Page)	External display RAM 64KB max	External display RAM Up to 640x256 pixel LCD panel display
Operation Voltage	2.4~5.5V	3.0~5.5V	2.7~5.5V
MPU Interface	4/8-bit 6800, 8080	8-bit ,8080	8-bit 6800,8080
Graphic / Text	Graphic / Text	Graphic / Text	Graphic / Text
Embedded Font ROM	512KB (Chinese, Japanese, English, European)	CGROM (128 word)	CGROM (160 word)
Embedded Display RAM	9.6 KB x 2	--	--
CGRAM	512B + 9.6KB (Option)	--	--
Character Font	8x16, 16x16 x1~x4 font enlargement	Horizontal: 5, 6, 7, 8 Vertical: 8 (fixed)	5 x 7
DAC (Contrast Control)	8-bit PWM	--	--
Graphic / Font Rotation	▲	--	--
Gray Scale	4 Level (FRC Mode)	--	--
8 x 8 Key Scan	Smart Mode	--	--
Horizontal Scroll	▲	▲	▲
Vertical Scroll	▲	▲	▲
Read/Write Display Data	▲	▲	▲
S/W & H/W Reset	▲	▲	▲
Operation Temperature	-30~85°C	-30~85°C	-30~80°C
Clock Source	X'tal OSC	X'tal OSC	X'tal OSC
CLK (MHz)	4~12	0.4~8	1~18
Package	Die, LQFP100, TQFP80	LQFP67	QFP60 / TQFP60
Compatible	--	T6963C	S1D13305

STN LCD Driver

NO.	Common	Segment	Logic Voltage	LCD Driver Voltage	Duty	Package
RA0086A	80 / 0	0 / 80	2.7~5.5V	6~30	1/64~1/256	LQFP-100

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