



Technology for
Brilliant Display



Company Overview

RAiO Technology Inc. was founded in 1999 by experienced engineers from top IC design house and ITRI, which is a governmental research institution located in HsinChu. RAiO employs professional IC designers, Marketing and Management specialists to create quality ICs and provide superior service to our customers. RAiO is an IC design company focus on LCD Controller and Driver ICs, also specializes in many digital and analog techniques and technologies, including the SOC, MCU, Analog IP and ASIC programmable solutions to customers. We offer highly integrated LCD controllers/drivers and LCD display solutions world-wide. Customers use RAiO chips in many advanced 3C, IA products and variety of applications on embedded systems, including Internet phone, MP3, PDA, Medical Equipment, Ultrasonic/Laser Equipment, Industrial Control, Signal Analyzer, Digital Control System and wide range of equipments.

Base on our Technical, Quality and Service commitments to customers, we create “Technology for Brilliant Display”, providing the best solutions and maximum value to our customers.

Our Customers

(System Firms): GE Energy Dept. JDSU/Acterna, Hospira, SAMSUNG, SANYO, GE Industrial Sensing, SIEMENS, DELTA, Sartorius, CISCO, Ingenico, Foxconn, Flextronics..., more than 500 companies world-wide. (Module Firms): Truly Semi, EDT, Varitronix, Tianma, Data Vision, Ocular LCD, CCT, Vistapoint, Winstar..., more than 400 module firms world-wide.

Company Profile

RAiO TECHNOLOGY Inc.

Founded: 1999

Headquarters: 7F, No. 19-1,
Industry East 4th Road, Hsinchu
Science Park, Hsin-Chu, Taiwan

Category: IC design company

Contact: sales@raio.com.tw

Associated Company:

Macronix International Co., Ltd.

Products:

- **TFT/STN LCD Controller**
(panel resolution 640x256,
320x240, 240x160)
- **STN LCD Controller with
Driver** (support COG LCD
panel resolution 144x65,
128x33)

TFT LCD Controller (Embedded font ROM)							
NO.	Panel Resolution (Max)	Color	Panel	Touch Controller	2D Engine + BTE	Ext Font ROM I/F	PWM
RA8870	640X480	256/4K/65K	Digital/Analog	4/5 wires (R-Type)	Yes	Yes (Parallel)	2

STN LCD Controller (Embedded font ROM)						
NO.	Panel Resolution	Operation Voltage	Mode	ADC/DAC	Package	MCU Interface
RA8802	320X240	2.7~4.5	Mono Graphic/Text	8 / 5 bit	Die, PQFP100 LQFP100	4/8-bit 6800,8080 series
RA8820	240X160	3.0~5.0	Mono Graphic/Text	8 / 5 bit	Die, QFP100	4/8-bit 6800,8080 series
RA8803	320X240	2.4~5.5	Mono Graphic/Text	10 / 5 bit	Die, PQFP100 LQFP100	4/8-bit 6800,8080 series
RA8822	240X160	2.4~5.5	Mono Graphic/Text	10 / 5 bit	Die, PQFP100, LQFP100	4/8-bit 6800,8080 series
RA8806	640x240 320X480	2.7~5.5	4 Gray Scale Two Layer Graphic/Text	10 / 8 bit	Die, LQFP100, TQFP80	4/8-bit 6800,8080 series

STN LCD Controller						
NO.	Panel Resolution	Operation Voltage	Mode	Compatible	Package	MCU Interface
RA8963	External Display RAM 64KB max	3.0~5.5	Mono Graphic/Text	Toshiba T8963C	LQFP67	8-bit 8080
RA8835 RA8835A	External Display RAM Up to 640x256 pixel LCD panel display	2.7~5.5	Mono Graphic/Text	Epson S1D13305	QFP60 / TQFP60	8-bit 6800,8080

STN LCD Controller with Driver								
NO.	Panel Resolution	Operation Voltage	Mode	Booster / Bias	Key Scan	Contrast Control	Package	MCU Interface
RA8815	128X33	3.0~3.8	Mono Graphic/Text	2X 1/4~1/7	4x5	32-Steps	Gold Bump Die	4/8-bit 6800,8080 series 3-wire/4-wire SPI
RA8816	144X65	2.8~3.8	Mono Graphic/Text	2X/3X/4X 1/5~1/9	4x5	64-Steps	Gold Bump Die	4/8-bit 6800,8080 series IIC/3-wire/4-wire SPI
RA8808	128X64	2.7~5.5	Mono Graphic	2X/3X/4X	—	—	Gold Bump Die	8-bit 6800,8080 series IIC/3-wire SPI

STN LCD Driver						
NO.	Common	Segment	Logic Voltage	LCD Driver Voltage	Duty	Package
RA0086	80 / 0	0 / 80	2.7~5.5	6~30	1/64~1/256	LQFP100

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