

 cyti 成越科技股份有限公司

Cheng Yue Technology Inc.

Company Profile

地址：台灣 30043 新竹市東區民生路 253 號 5 樓

電話：13823554918

網址：www.cyti.com.tw

公司簡介

- 成越科技定位為專業的 IC 設計公司。是專注於設計研發與銷售 LCD 專用的時脈控制晶片 (timing controller, 或 T-CON), 及視訊控制、影像處理等相關 IC 的科技公司。目前已經量產的產品線主要有三大類, 分別為 數位面板用 T-CON、類比面板用 T-CON, 及 video pattern generator。
- 成越科技的成員由具有 10 年以上之數位及類比設計、LCD monitor controller、TFT timing controller、digital TV 及其他多種消費性 IC 產品設計與量產之相關豐富工程經驗的專業設計團隊所組成。

Product Line: T-CONs and Pattern Generator

T-CON :

- **CY2890** : digital T-CON (64 LQFP green package)
- CY2860 : digital T-CON (64 LQFP green package)
- CY2810GH : analog T-CON (48 LQFP green package)
- CY2810GH-3 : analog T-CON (48 LQFP green package)
- CY2820 : analog T-CON + scalar
- CY2870 : digital T-CON + scalar

Pattern Generator :

- CY3000 : digital + analog pattern generator
- **CY3100** : analog pattern generator
- **CY3200** : digital pattern generator

Company Product Line 1: TFT LCD Video Related Controller

- **CY2890** : digital T-CON (64 LQFP green package)
 - (1) 8-bit digital RGB input, 6-bit digital RGB output
 - (2) input can be HSYNC mode or DE mode
 - (3) support 8 different resolution digital panels (800x480, 640x480, 800x600, 1024x600, 1024x768, 720x480, 854x480, 480x272) by hardware control
 - (4) built-in test pattern generator with 24 popular patterns, which can be free running or stopped at any time by hardware control
 - (5) support left/right, up/down scan control
 - (6) support DUAL edge, output data reverse functions
 - (7) support AP, flicker reduction functions
 - (8) advanced 16.7M color Dither function
 - (9) built-in polarity inverted function
 - (10) built-in power-on reset circuit, lower power consumption
 - (11) supply voltage : 3.0V to 3.6V, high operating frequency: ~ 75 MHz
 - (12) wide temperature operation range -40°C ~ + 95°C, industry standard
 - (13) high ESD duration, above 4KV

Company Product Line 1: TFT LCD Video Related Controller

- **CY2860** : digital T-CON (64 TQFP green package)
 - (1) support 13 different resolution digital panels (800x480, 640x480, 848x480, 800x600, 640x234, 480x272, 480x240, 480x234, 720x400, 400x234, 384x234, 320x234, 320x240)
 - (2) input can be HSYNC mode or DE mode
 - (3) 8-bit digital RGB input, 6-bit digital RGB output
 - (4) advanced 16.7M color dither function
 - (5) support DUAL edge, output data reverse functions
 - (6) support AP, flicker reduction functions
 - (7) built-in 16 free running test patterns
 - (8) support left/right, up/down scan control
 - (9) built-in polarity inverted function
 - (10) built-in power-on reset circuit
 - (11) supply voltage : 3.0V to 3.6V, yet 5V tolerant for all input signals
 - (12) wide temperature operation range -40°C / + 95°C

Company Product Line 1: TFT LCD Video Related Controller

- **CY2810GH** : analog T-CON (48 LQFP green package)
 - (1) analog timing controller + 3 PWMs + turbo-lock phase detector
 - (2) support 1.5" to 7" analog panels
 - (3) built-in NTSC/PAL auto switching
 - (4) built-in digital sync separator
 - (5) provide 8 zoom modes for 16:9 7" (1440x234) and 6.5" (1200x234) panels.
 - (6) support left/right, up/down scan control
 - (7) built-in power-up and power-down sequence
 - (8) shift clocks signal for the source driver. (3-phase clock)
 - (9) line inversion driving scheme

Company Product Line 1: TFT LCD Video Related Controller

- **CY2810GH-3** : analog T-CON (48 LQFP green package)
 - (1) analog timing controller + 2 PWMs + turbo-lock phase detector
 - (2) support 1.5" to 7" analog panels
 - (3) built-in NTSC/PAL auto switching
 - (4) built-in digital sync separator
 - (5) no zoom modes for 16:9 7" (1440x234) and 6.5" (1200x234) panels.
 - (6) support left/right, up/down scan control
 - (7) built-in power-up and power-down sequence
 - (8) shift clocks signal for the source driver. (3-phase clock)
 - (9) line inversion driving scheme
 - (10) support phase lead/lag control

Company Product Line 1: TFT LCD Video Related Controller

- **CY2820** : analog T-CON + scalar
 - (1) CCIR656/601 + RGB in + scalar + analog timing controller + I2C + SPI master + pattern generator + gamma + DAC
 - (2) integrate CYT's proprietary "dual exponential vertical scaling algorithm"
 - (3) support 8 zoom modes.
 - (4) also support one programmable panel. (by SPI bus)
 - (5) built-in video processor
 - (6) integrated 3 special design 9 bit DACs.
- **CY2870** : digital T-CON + scalar
 - (1) CCIR656/601 + RGB in (parallel/serial) + scalar + OSD + I2C (master and slave) + gamma + video processor
 - (2) support 16 different resolution digital panels (up to 1024 x 768)
 - (3) support powerful video processor. (9 CYT's video process algorithms)
 - (4) de-interlacer with motion detector

Company Product Line 2: Pattern Generator

Powerful pattern generators for R&D and product line test

- **CY3000** : digital + analog pattern generator
 - (1) support CVBS and S-video output, for NTSC/PAL
 - (2) support digital CCIR656/601 output (8 bits 27M Hz)
 - (3) programmable HSYNC/VSYNC polarity for 601
 - (4) support 8-8-8 RGB output with programmable resolution and frequency
 - (5) hot key switching for min/typ/max H-total, V-total
 - (6) hot key switching for NTSC/PAL
 - (7) DE mode and HSYNC mode
 - (8) 32 different patterns for LCD test

Company Product Line 2: Pattern Generator

- **CY3100** : analog pattern generator
 - (1) support analog CVBS and S-video output, for NTSC/PAL
 - (2) support digital CCIR-601/656 output (8 bits 27M Hz)
 - (3) concurrent drive out for CCIR601/CCIR656 , CVBS/S-video
 - (4) programmable HSYNC/VSYNC polarity for 601
 - (5) brightness and contrast adjustment
 - (6) hot key switching between NTSC/PAL
 - (7) 40 built-in popular patterns for LCD test
 - (8) auto pattern scan mode, change one pattern every second
 - (9) LCD panel display for easy user interface
 - (10) small outline, easy for portable use

Company Product Line 2: Pattern Generator

- **CY3200** : digital pattern generator
 - (1) support 8-8-8 RGB output with programmable resolution and frequency
 - (2) support serial RGB output, 8 bits 27 MHz
 - (3) support different kinds of panel resolutions
800x480, 640x480, 848x480, 800x600, 640x234, 480x272, 480x240,
480x234, 720x240, 400x234, 384x234, 320x234, 320x240
 - (4) programmable HSYNC/VSYNC polarity for 601
 - (5) hot key switching for min/typ/max H-total, V-total
 - (6) support DE mode and HSYNC mode
 - (7) 32 built-in popular patterns for LCD test
 - (8) auto pattern scan mode, change one pattern every second
 - (9) LCD panel display for easy user interface
 - (10) small outline, easy for portable use