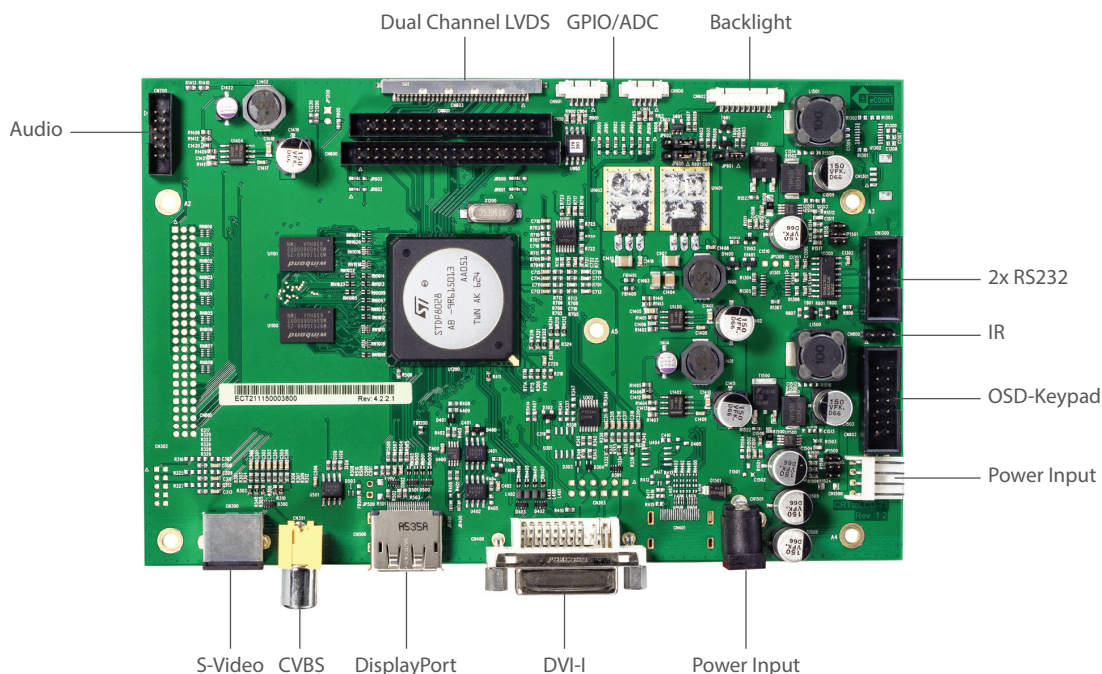Full-HD-Flatpanel-Controller with SD-TV/HD-TV Video-Decoder

CRT*to*LCD-71

- DisplayPort, DVI and Analog-RGB (VGA) inputs up to 1920x1200@60Hz
- CVBS, S-Video and YPbPr input support
- Advanced high quality picture scaling and de-interlacing algorithms
- Powerful Software Configuration Tools
- Panel Configuration & Embedded scripting support
- Supports Dual-Channel LVDS outputs up to 1920x1200@60Hz
- Wide-range input power supply (12-24V DC)

Full-HD-Flatpanel-Controller with SD-TV/HD-TV Video-Decoder
CRT*to*LCD-71

Board connector labels:
- Dual Channel LVDS
- GPIO/ADC
- Backlight
- Audio
- 2x RS232
- IR
- OSD-Keypad
- Power Input
- S-Video
- CVBS
- DisplayPort
- DVI-I
- Power Input

Description

The CRTtoLCD-71 is Full-HD-Flatpanel Controller that allows connection of standard Analog-RGB, DVI, DisplayPort, Composite-Video, S-Video and Component-Video sources to TFT-LCD flatpanels.

From a single +12 to 24V DC power supply, the CRTtoLCD-71 generates all required supply voltages and power sequencing. LED or CCFL backlight dimming is supported and can be controlled by PWM or absolute voltage level.

The Multi-Standard Video-Decoder handles PAL, NTSC, SECAM and other video formats.

Typical Verticals

Point of Sales (POS):	Check-in terminals
Point of Information (POI):	Public displays
Industrial Automation & Medical:	Panel-PCs, Industrial monitors
Test & Measurement:	Smart displays
Transportation:	Rugged displays
Gaming:	Casino slot machines, Lottery systems, Open frame monitors

Full-HD-Flatpanel-Controller with SD-TV/HD-TV Video-Decoder
CRT*to*LCD-71

Technical Information

DVI Input	• DVI/HDMI 1.3 compliant receiver • Up to 1920x1200@60Hz (WUXGA)
Analog Input (VGA) via DVI-I	• 10-bit triple ADCs with capture up to 205 MHz • Input resolution support up to WUXGA@60Hz • Composite-Sync and Sync-on-Green (SOG) support
DisplayPort Input	• DisplayPort 1.1 compliant receiver • Up to 1920x1200@60Hz (WUXGA)
CVBS and S-Video Inputs	• Multi-Standard video decoder for PAL/NTSC/SECAM • SD-TV (CVBS, S-Video) and HD-TV (YPbPr) inputs
Picture and Scaling	• Highest quality scaling and full zoom & shrink capabilities • Picture-In-Picture (PiP) • FAROUDJA TRUELIFE and REALCOLOR Video Enhancer • FAROUDJA DCDI CINEMA format conversion
Sound	• 1x Stereo output (line level), 2x Stereo inputs
Specials	• Wide range input power supply 12 V- 24 V-DC • Flatpanel power up to 3A, Backlight power up to 3.5A • Ambient Light Sensor(ALS) support • Multipurpose GPIO's(PWM / I²C) and analog inputs • Embedded scripting engine • DDC2Bi / VCP support, HDCP 1.2a compliant • 2x RS232 interfaces • Serial-API for full access to various functions and features • Serial-OSD to keypad-less OSD control
Integrated On-Screen-Display	• On-Screen-Display (OSD) for control of all configured features
Display-Interface	• Dual-Channel LVDS JILI30/JILI40/JILI44 (18/24/30Bit) • Up to 1920x1200@60Hz
Form Factor	• 179 mm x 114 mm x 16mm (L/W/H)
Optional	• Inverter and display cable-kits for various flatpanels

Ordering Information

Article	Part.-No.	Description
CRT*to*LCD-71	21115E	Full-HD-Flatpanel-Controller with Analog-RGB(VGA) via DVI-I, DP , Composite-, S-Video and Component inputs, Dual Channel LVDS output
KAB-COM	61004E	Serial-RS232 connection cable for CRTtoLCD-71
OSD-Panel-Set	22010	5-button keypad incl. cable
KAB-IR	61017E	Infrared(IR) connection cable to be used in combination with standard remote control according to RC5-Standard for CRTtoLCD-71

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