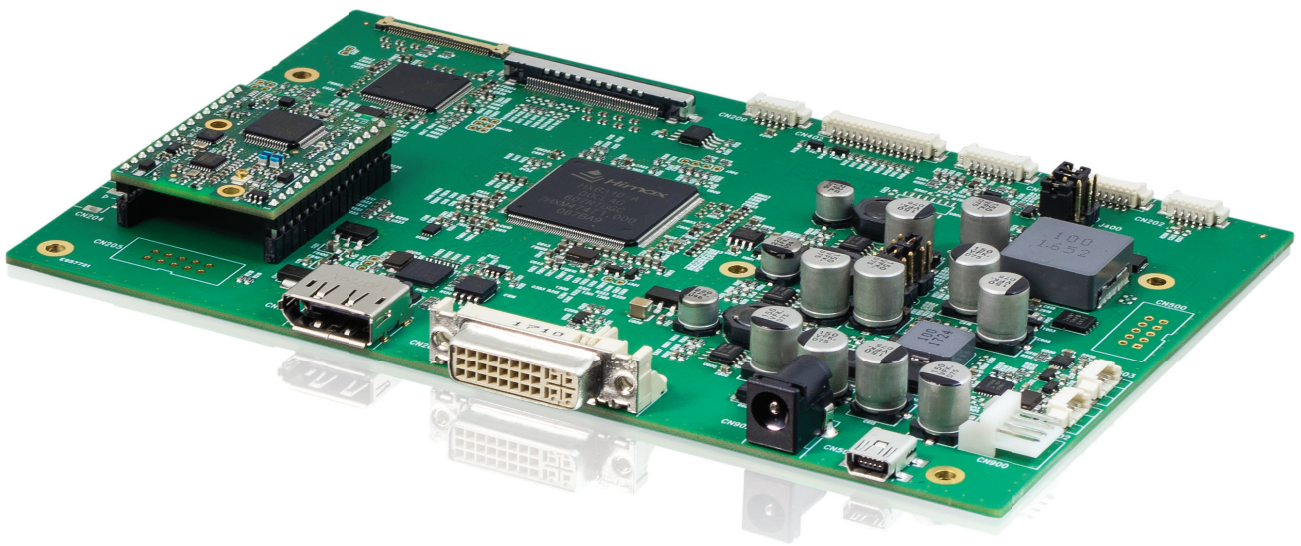


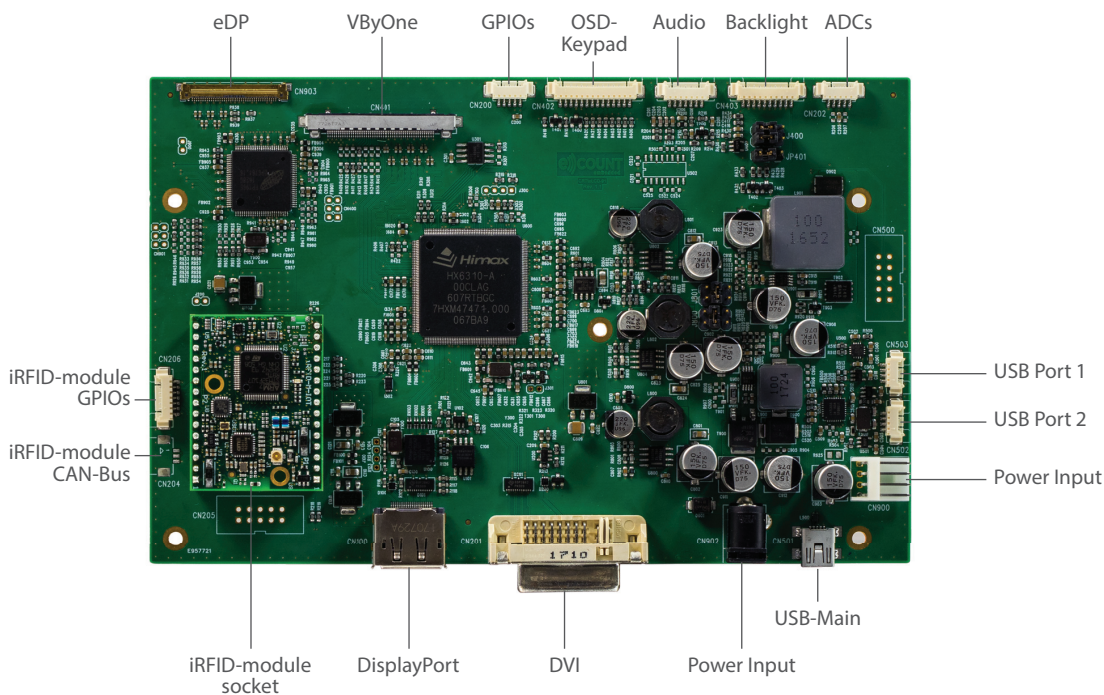


4K-UHD-Flatpanel-Controller

CRTtoLCD-91

- DisplayPort and DVI inputs up to 3840x2160@60 Hz
- Supported formats RGB up to 30bit and YCbCr (420/422/444)
- Superior picture quality due to improved scaling algorithms
- Powerful Software Configuration Tools
- Panel Configuration & Embedded scripting support
- Supports VbyOne and eDP outputs up to 3840x2160@60 Hz
- Wide-range input power supply (12-24 V DC)

4K-UHD-Flatpanel-Controller CRTtoLCD-91



Description

The CRTtoLCD-91 is a 4K-UHD-Flatpanel-Controller that allows connection of standard DVI and DisplayPort sources to TFT-LCD flatpanels.

From a single +12 to 24V DC power supply, the CRTtoLCD-91 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.

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

4K-UHD-Flatpanel-Controller CRTtoLCD-91

Technical Information

DVI Input	• DVI/HDMI 2.0 compliant receiver • Up to UHD (3840x2160@60 Hz)
DisplayPort Input	• DisplayPort 1.4 compliant receiver • Up to HD (3840x2160x60 Hz)
Picture and Scaling	• Highest quality scaling and full zoom & shrink capabilities • Image flipping • Content Adaptive Backlight Control (CABC) • Adaptive multi-angle interpolation
Sound	• Stereo sound output (line-level) • Dolby 7.1 via I²S up to 192 Kbps
Specials	• Wide range input power supply 12V-24V-DC • Flatpanel power up to 8 A. Backlight power up to 3.5 A • Ambient Light Sensor support • Multipurpose GPIO's (PWM / I²C) and analog inputs • Embedded scripting engine • DDC2Bi / VCP support, HDCP 1.4 / HDCP 2.2 compliant • Serial-API for full access to various functions and features • Serial-OSD for keypad-less OSD control • On-Board USB-to-RS232 converter for easy serial access • On-Board USB-Hub for up to two USB 2.0 ports
Integrated On-Screen-Display	• On Screen Display (OSD) for control of all configured features • OSD rotation (90° / 180° / 270°)
Display-Interface	• VbyOne (8 lanes, 3.75 Gbps per lane) • eDP1.2a (4 lanes, 5.4 Gbps per lane)
Form Factor	• 179 mm x 114 mm x 13 mm (L/W/H)
Optional	• Inverter and display cable-kits for various flatpanels

Ordering Information

Article	Part.-No.	Description
CRTtoLCD-91	21120E-00-01-01	UHD-4K Flatpanel-Controller with DVI-I, DP and USB inputs, VbyOne and eDP outputs
OSD-Panel-Set-LP	22011E	5-button OSD-keypad with dual color LED (red/green), IR-Receiver, Ambient Light Sensor (ALS) incl. cable for CRTtoLCD-71-LP/-61-LP/-91
iRFID-M-IOT-W-CT	10025E-00-01-01	WiFi RFID HF-reader module, Commercial Temperature 0 °C to +60 °C, male pin headers bottom side