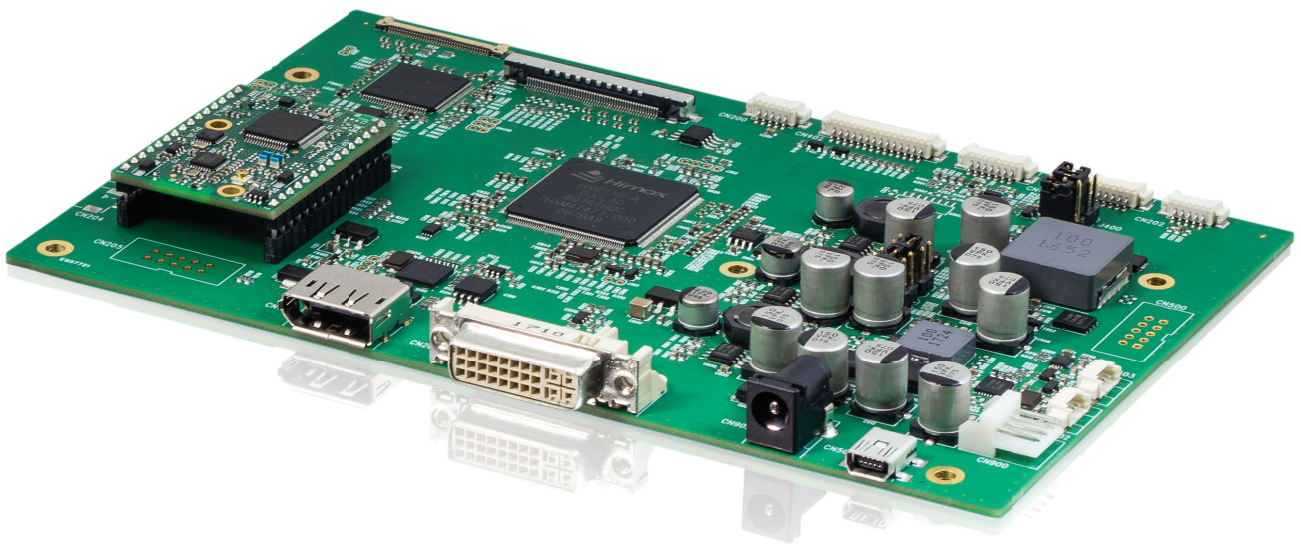


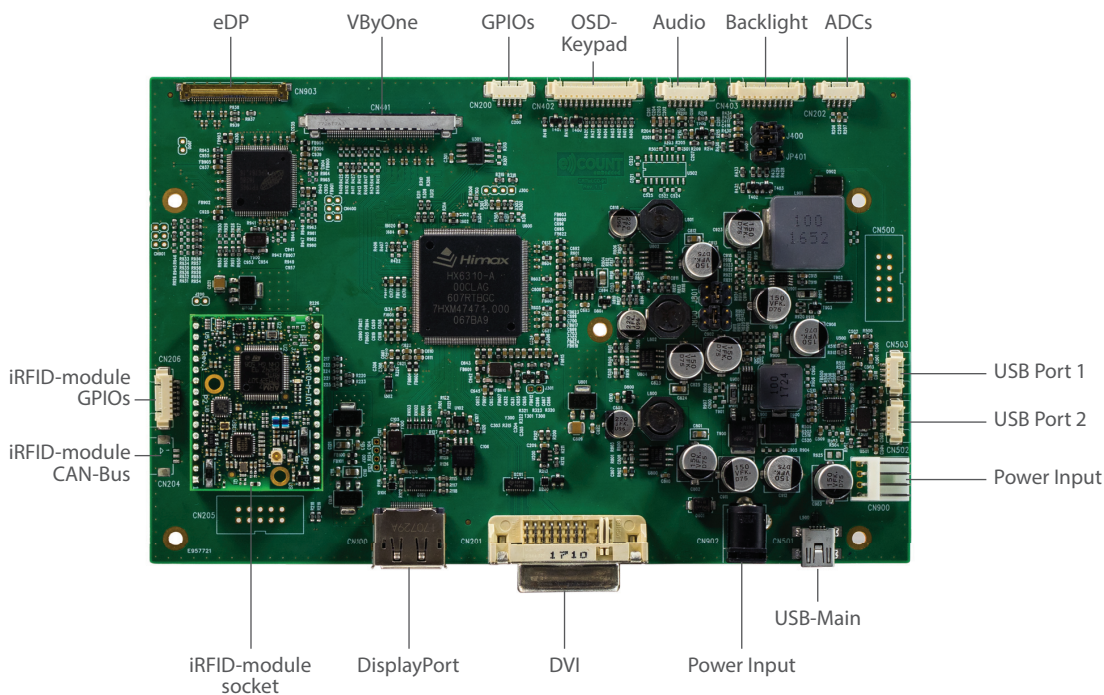


4K-UHD-Flatpanel-Controller

## 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                    | <ul style="list-style-type: none"> <li>DVI/HDMI 2.0 compliant receiver</li> <li>Up to UHD (3840x2160@60 Hz)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DisplayPort Input            | <ul style="list-style-type: none"> <li>DisplayPort 1.4 compliant receiver</li> <li>Up to HD (3840x2160x60 Hz)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Picture and Scaling          | <ul style="list-style-type: none"> <li>Highest quality scaling and full zoom &amp; shrink capabilities</li> <li>Image flipping</li> <li>Content Adaptive Backlight Control (CABC)</li> <li>Adaptive multi-angle interpolation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           |
| Sound                        | <ul style="list-style-type: none"> <li>Stereo sound output (line-level)</li> <li>Dolby 7.1 via I<sup>2</sup>S up to 192 Kbps</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specials                     | <ul style="list-style-type: none"> <li>Wide range input power supply 12V-24V-DC</li> <li>Flatpanel power up to 8 A. Backlight power up to 3.5 A</li> <li>Ambient Light Sensor support</li> <li>Multipurpose GPIO's (PWM / I<sup>2</sup>C) and analog inputs</li> <li>Embedded scripting engine</li> <li>DDC2Bi / VCP support, HDCP 1.4 / HDCP 2.2 compliant</li> <li>Serial-API for full access to various functions and features</li> <li>Serial-OSD for keypad-less OSD control</li> <li>On-Board USB-to-RS232 converter for easy serial access</li> <li>On-Board USB-Hub for up to two USB 2.0 ports</li> </ul> |
| Integrated On-Screen-Display | <ul style="list-style-type: none"> <li>On Screen Display (OSD) for control of all configured features</li> <li>OSD rotation (90° / 180° / 270°)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Display-Interface            | <ul style="list-style-type: none"> <li>VbyOne (8 lanes, 3.75 Gbps per lane)</li> <li>eDP1.2a (4 lanes, 5.4 Gbps per lane)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form Factor                  | <ul style="list-style-type: none"> <li>179 mm x 114 mm x 13 mm (L/W/H)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Optional                     | <ul style="list-style-type: none"> <li>Inverter and display cable-kits for various flatpanels</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### 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                                        |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[eCOUNT Embedded :](#)

[21120E-00-01-01](#)