

# IDK-2112

## 12.1" SVGA 1,200 cd/m<sup>2</sup> Ultra High Brightness Industrial Display Kit with LED B/L

NEW



### Features

- 12.1" LCD supports 800 x 600 pixels and wide operating temperature (-30 ~ 85° C)
- Ultra-high brightness of 1200 cd/m<sup>2</sup> with LED backlight
- High contrast ratio of 700:1
- High uniformity of 85%
- Superior sunlight readability
- LVDS signal interface
- Low power consumption 8.924W
- 5W resistive touch solution (optional)
- Anti-Reflection surface treatment (optional)
- Manually VR brightness control (optional)
- Auto-dimming solution with light sensor (optional)
- Optical bonding (optional)

### Introduction

The Advantech IDK-2112 series comes with a 12.1" 1200 cd/m<sup>2</sup> industrial grade LCD display, and an LED driver board. The series is also available with flexible options for 5-wire resistive touch screens and enhanced treatment such as Anti-Reflection surface treatment and optical bonding solution. IDK-2112 series supports 1200 cd/m<sup>2</sup> high brightness with low power consumption at the typical consumption of 8.924W. Equipped with high level of brightness and wide operating temperature, IDK-2112 provides superior sunlight readability and is perfect for applications whether in semi-outdoor or outdoor environments.

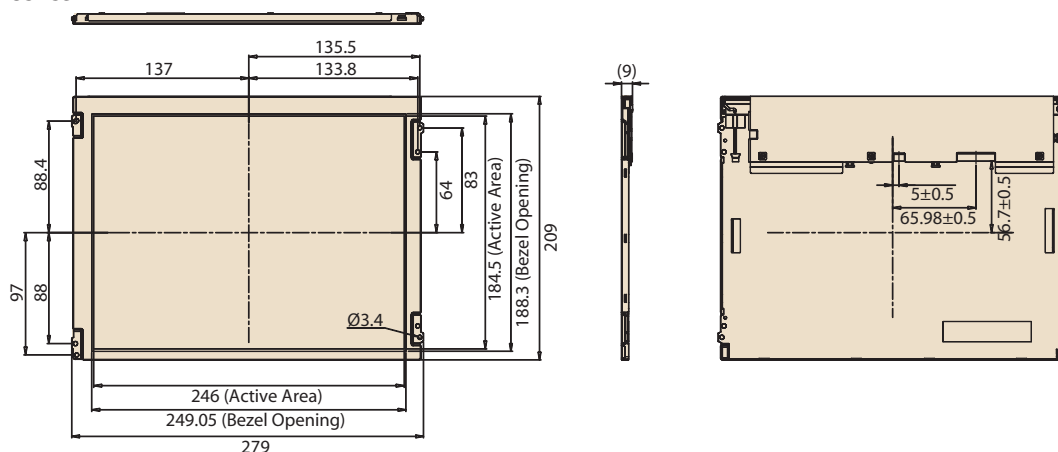
### Specifications

|                         |   |   |
|-------------------------|---|---|
| LCD Panel               | Model   | IDK-2112  |
|                         | Display Size  | 12.1" LED backlight panel   |
|                         | Resolution  | 800 x 600 (SVGA)  |
|                         | Viewing Angle (U/D/L/R)   | 65°/75°/80°/80°   |
|                         | Brightness  | 1200 (cd/m <sup>2</sup> )   |
|                         | Contrast Ratio  | 700 : 1   |
|                         | Response Time (ms)  | 35 ms   |
|                         | Colors  | 6bit (262K)/8bit (16.2M)  |
|                         | Voltage   | 3.3 V   |
|                         | Consumption   | 8.924W  |
|                         | Signal Interface  | 1 channel LVDS  |
|                         | Weight  | N series: 600 g<br>R series: 980 g                                |
|                         | Backlight Life (hrs)  | 50,000 hrs  |
| Dimensions (W x H x D)  | N series: 279 x 209.0 x 9.0 mm<br>R series: 279 x 209.0 x 11.3 mm |   |
| LED Driver Board        | Efficiency  | 90%   |
|                         | Output Current & Voltage  | 400mA/18V   |
|                         | (Typ.) Dimensions (W x H x D)                                     | 62 x 16 x 6 mm  |
| Touch Screen (R series) | Touch Screen  | 5-wire Resistive  |
|                         | Light Transmission  | 80% ± 3%  |
|                         | Surface Hardness  | 3H  |
|                         | Durability  | 10 million times  |
| Environment             | Operating Temperature   | -30 ~ 85° C (IDK-2112N-K2SVA2E) / -20 ~ 70° C (IDK-2112R-K2SVA2E) |
|                         | Storage Temperature   | -30 ~ 85° C (IDK-2112N-K2SVA2E)/ -25 ~ 80° C (IDK-2112R-K2SVA2E)  |
|                         | Humidity  | 95% @ 39° C., non-condensing                                      |

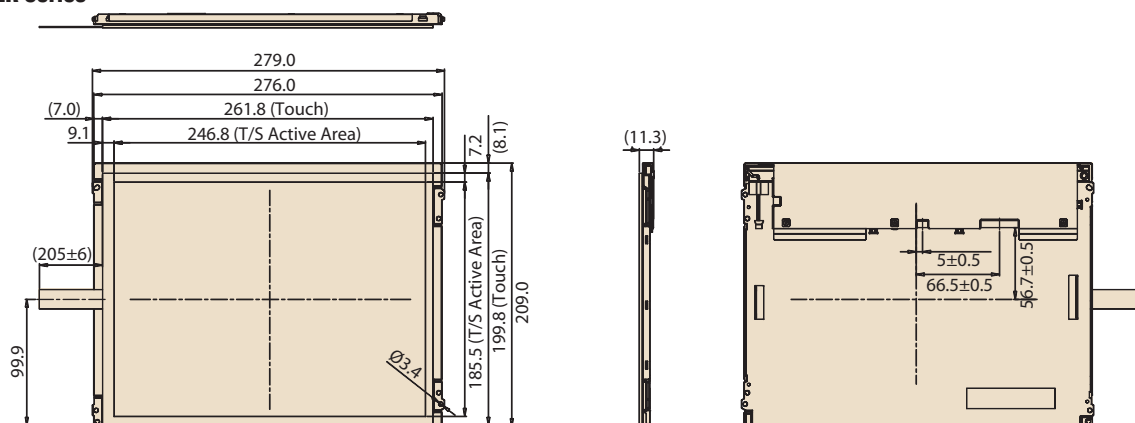
## Dimensions

Unit: mm

### IDK-2112N Series



### IDK-2112R Series



## Ordering Information

| Part No.          | Size  | Brightness (cd/m <sup>2</sup> ) | Interface | Touch screen     | Touch Interface |
|-------------------|-------|---------------------------------|-----------|------------------|-----------------|
| IDK-2112N-K2SVA2E | 12.1" | 1200                            | LVDS      | N/A              | N/A             |
| IDK-2112R-K2SVA2E | 12.1" | 1200                            | LVDS      | 5-wire Resistive | USB             |

## Packing List

| Part Number       | Description                        |
|-------------------|------------------------------------|
| ETM-RES04C-EEH4EE | 1 x 5-wire USB touch controller    |
| 1700020324-01     | 1 x USB cable for touch controller |

Note: Package contents are subject to change without prior notice

## Optional Order

| SBC Part No. | LVDS cable P/N | Display interface                | B/L cable P/N  | Touch interface | Touch power input |
|--------------|----------------|----------------------------------|----------------|-----------------|-------------------|
| MIO-5270     | 96CB-L2040PAE4 | Single channel 18bit LVDS (SVGA) | 96CB-E0505PAC3 | USB             | 5 V               |
| PCM-9362     | 96CB-L2020PAE2 | Single channel 18bit LVDS (SVGA) | 96CB-E0505PAC3 | USB             | 5 V               |
| AIMB-270     | 96CB-L2040PAE4 | Single channel 18bit LVDS (SVGA) | 96CB-E0505PAC3 | USB             | 5 V               |

For more compatible embedded board solution, please visit our Build Your display web page as below  
<http://www.advantech.com/buildyourdisplay>



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