

# 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.

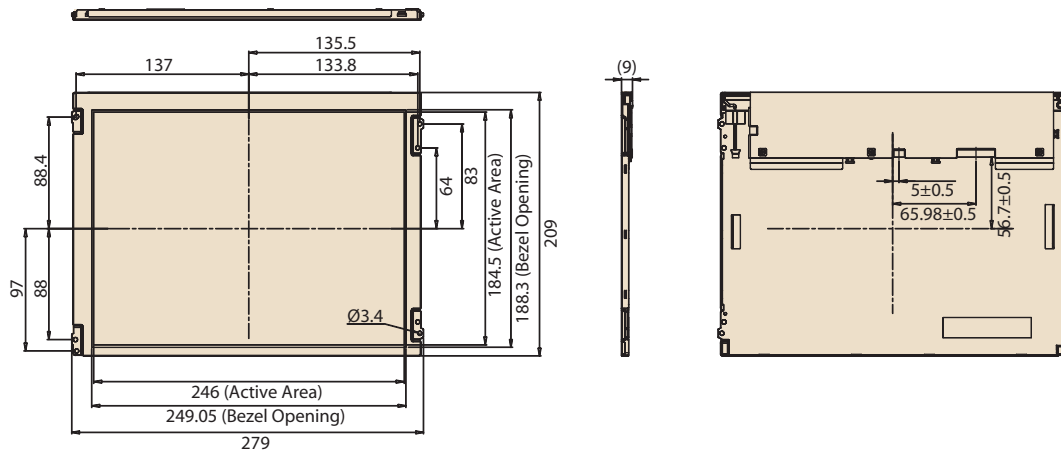
### Specifications

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 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 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

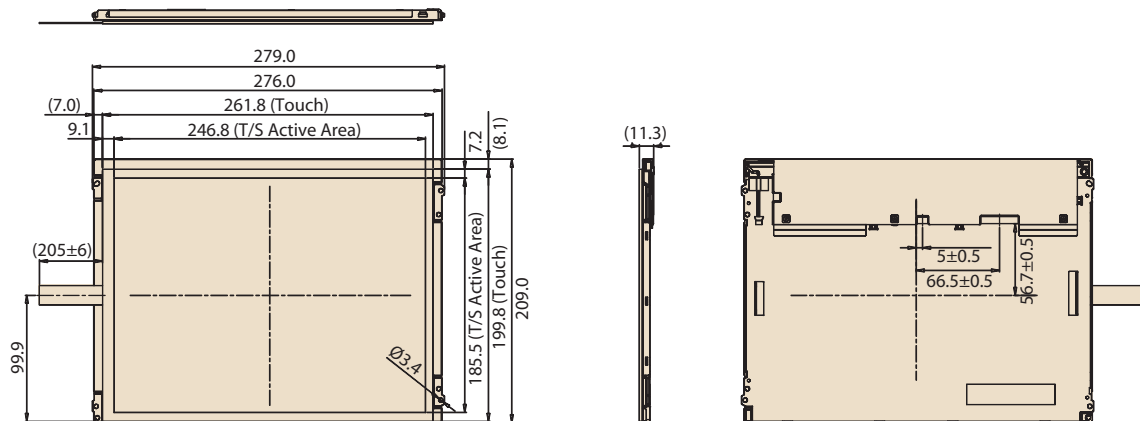
## Dimensions

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>