# IDK-2112

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



#### Features

- = 12.1" LCD supports 800 x 600 pixels and wide operating temperature (-30  $\sim$  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**

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	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	
LCD Panel	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	
	Efficiency	90%	
LED Driver Board	Output Current & Voltage	400mA/18V	
	(Typ.) Dimensions (W x H x D)	62 x 16 x 6 mm	
	Touch Screen	5-wire Resistive	
Touch Screen (R series)	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	

### IDK-2112



# **Ordering Information**

Part No.	Size	Brightness (cd/m2)	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-E0605HAA1	USB	5 V
PCM-9362	96CB-L2020PAE2	Single channel 18bit LVDS (SVGA)	96CB-E0605HAA1	USB	5 V
AIMB-270	96CB-L2040PAE4	Single channel 18bit LVDS (SVGA)	96CB-E0605HAA1	USB	5 V

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