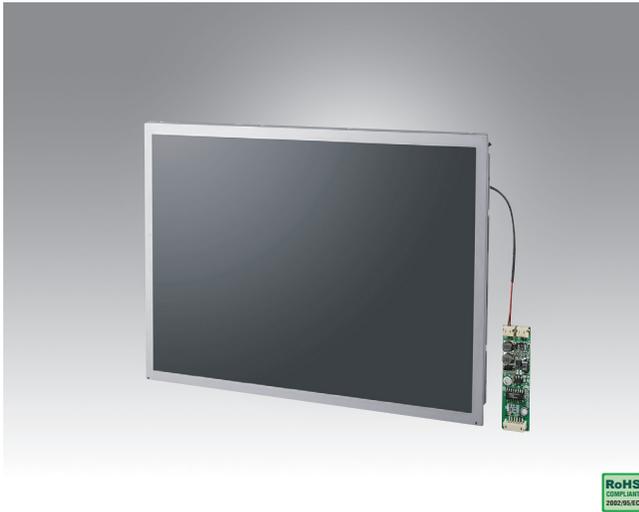


# IDK-2108

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



### Features

- 8.4" LCD supports 800 x 600 pixels and wide operating temperature (N series: -20 ~ 70° C ; R series:-10 ~ 60° C )
- Ultra-high brightness of 1200 cd/m<sup>2</sup> with LED backlight
- High contrast ratio of 1000:1
- High uniformity of 85%
- Superior sunlight readability
- LVDS signal interface
- Low power consumption 5.85 W
- 4W 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-2108 series comes with a 8.4" 1200 cd/m<sup>2</sup> industrial grade LCD display, and an LED driver board. The series is also available with flexible options for 4-wire resistive touch screens and enhanced treatment such as Anti-Reflection surface treatment and optical bonding solution. IDK-2108 series supports 1200 cd/m<sup>2</sup> high brightness with low power consumption at the Typical consumption of 5.85W. Equipped with high level of brightness and wide operating temperature, IDK-2108 provides superior sunlight readability and is perfect for applications whether in semi-outdoor or outdoor environments.

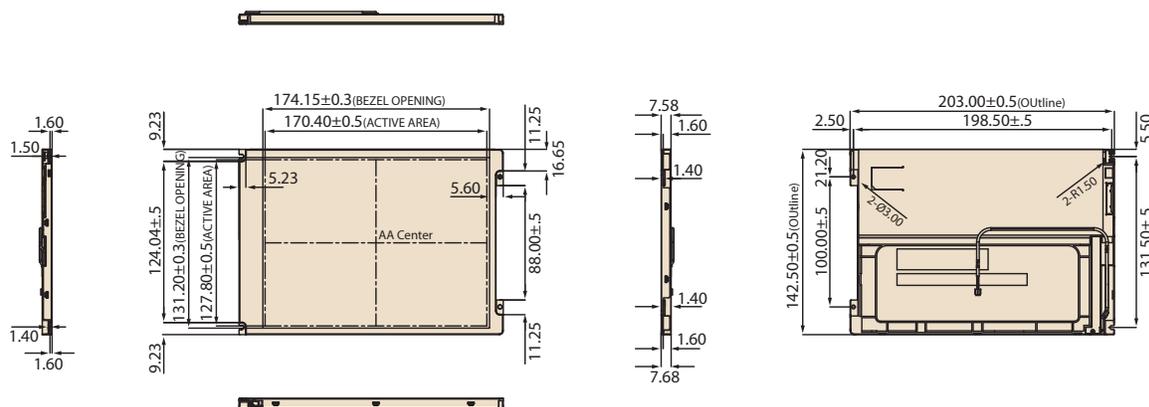
### Specifications

|                         |                          |                                                                        |
|-------------------------|--------------------------|------------------------------------------------------------------------|
| LCD Panel               | Model                    | IDK-2108                                                               |
|                         | Display Size             | 8.4" LED backlight panel                                               |
|                         | Resolution               | 800 x 600 (SVGA)                                                       |
|                         | Viewing Angle (U/D/L/R)  | 89°/89°/89°/89°                                                        |
|                         | Brightness               | 1200 cd/m <sup>2</sup>                                                 |
|                         | Contrast Ratio           | 1000:1                                                                 |
|                         | Response Time (ms)       | 25 ms                                                                  |
|                         | Colors                   | 6bit (262K)/8bit (16.2M)                                               |
|                         | Voltage                  | 3.3 V                                                                  |
|                         | Consumption              | 5.85W                                                                  |
|                         | Signal Interface         | 1 channel LVDS                                                         |
|                         | Weight                   | N series: 260 g<br>R series: 338.5 g                                   |
|                         | Backlight Life (hrs)     | 50,000hrs                                                              |
|                         | Dimensions (W x H x D)   | N series: 203.0 x 142.5 x 7.68 mm<br>R series: 203.0 x 142.5 x 9.38 mm |
| LED Driver Board        | Efficiency               | 90%                                                                    |
|                         | Output Current & Voltage | 500 mA / 8.9 V (Min)                                                   |
|                         | Dimensions (W x H x D)   | 60 x 16 x 5 mm                                                         |
| Touch Screen (R series) | Touch Screen             | 4-Wire Resistive                                                       |
|                         | Light Transmission       | 82±3%                                                                  |
|                         | Surface Hardness         | 3H                                                                     |
|                         | Durability               | 1 million times                                                        |
| Environment             | Operating Temperature    | N series: -20 ~ 70° C<br>R series:-10 ~ 60° C                          |
|                         | Storage Temperature      | N series: -30 ~ 80° C<br>R series: -30 ~ 70° C                         |
|                         | Humidity                 | 90% @ 39°C., non-condensing                                            |

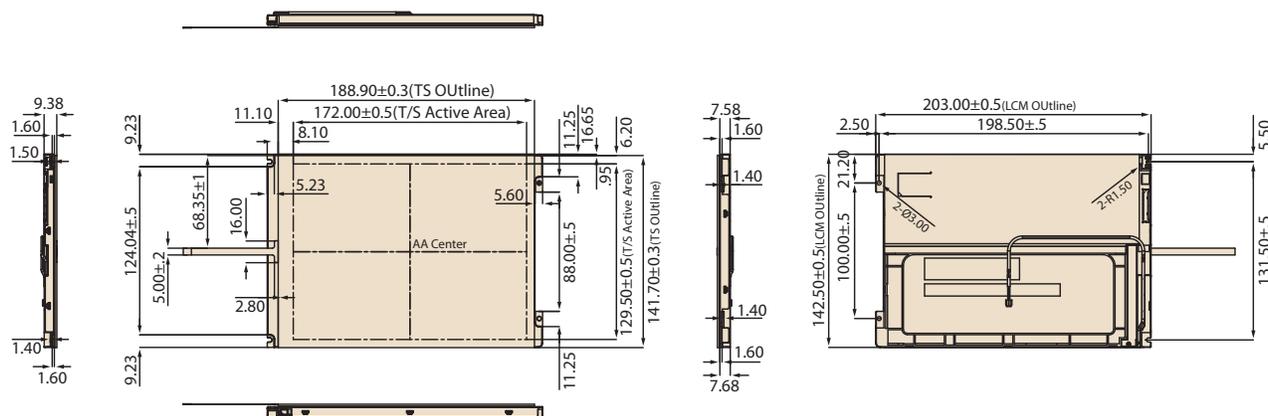
## Dimensions

Unit: mm

### IDK-2108N Series



### IDK-2108R Series



## Ordering Information

| Part No.          | Size | Brightness (cd/m <sup>2</sup> ) | Interface | Touch screen     | Touch Interface |
|-------------------|------|---------------------------------|-----------|------------------|-----------------|
| IDK-2108N-K2SVA2E | 8.4" | 1200                            | LVDS      | N/A              | N/A             |
| IDK-2108R-K2SVA2E | 8.4" | 1200                            | LVDS      | 4-wire Resistive | USB             |

## Packing List

| Part Number       | Description                 |
|-------------------|-----------------------------|
| ETM-RES05C-EEH4EE | 1 x 4-wire Touch controller |
| 1700020324-01     | 1 x USB cable               |

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-L2040PAB4 | Single channel 18bit LVDS (SVGA) | 96CB-E0605HAA1 | USB             | 5V                |
| PCM-9362     | 96CB-L2020PAB2 | Single channel 18bit LVDS (SVGA) | 96CB-E0605HAA1 | USB             | 5V                |
| AIMB-270     | 96CB-L2040PAB4 | Single channel 18bit LVDS (SVGA) | 96CB-E0605HAA1 | USB             | 5V                |

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