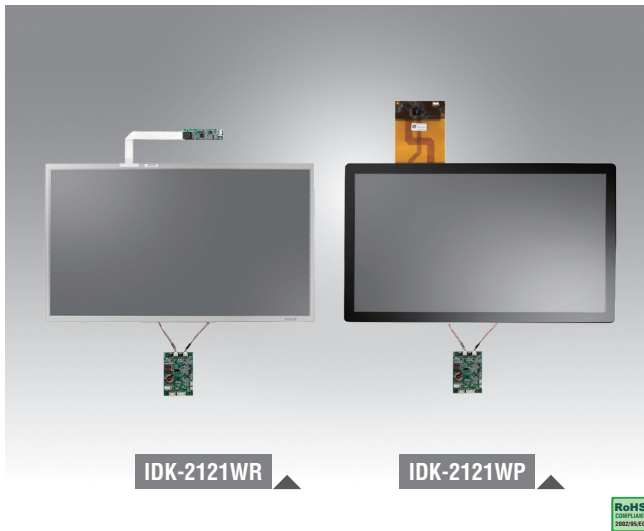


# IDK-2121W

## 21.5" FHD 1, 200 cd/m<sup>2</sup> Ultra High Brightness Industrial Display Kit



### Features

- 21.5" LCD supports 1920 x 1080 pixels and wide operating temperature (0 ~ 60 °C)
- Ultra-high brightness of 1200 cd/m<sup>2</sup> with LED backlight
- Superior sunlight readability
- LVDS signal interface
- Low power consumption
- 5W resistive / Projected capacitive touch solution
- Anti-Reflection surface treatment (customized request)
- Manually VR brightness control (customized request)
- Auto-dimming solution with light sensor (customized request)
- Optical bonding (customized request)

### Introduction

The Advantech IDK-2121W series comes with a 21.5" 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 or Projected capacitive touch screens and enhanced treatment such as Anti-Reflection surface treatment and optical bonding solution. IDK-2121W series supports 1200 cd/m<sup>2</sup> high brightness with low power consumption at the maximum consumption. Equipped with high level of brightness and wide operating temperature, IDK-2121W provides superior sunlight readability and is perfect for applications whether in semi-outdoor or outdoor environments.

### Specifications

| Display          | Model                   | IDK-2121WN-K2FHB1                | IDK-2121WR-K2FHB1         | IDK-2121WP-K2FHB1         |
|------------------|-------------------------|----------------------------------|---------------------------|---------------------------|
|                  | Size                    | 21.5" LED backlight panel        | 21.5" LED backlight panel | 21.5" LED backlight panel |
|                  | Resolution              | 1920 x 1080 (FHD)                | 1920 x 1080 (FHD)         | 1920 x 1080 (FHD)         |
|                  | Display mode            | Normally Black                   | Normally Black            | Normally Black            |
|                  | Viewing Angle(U/D/L/R)  | 89°/89°/89°/89°                  | 89°/89°/89°/89°           | 89°/89°/89°/89°           |
|                  | Brightness (Center)     | 1200 (cd/m <sup>2</sup> )        | 1200 (cd/m <sup>2</sup> ) | 1200 (cd/m <sup>2</sup> ) |
|                  | Contrast Ratio          | 1000:1                           | 1000:1                    | 1000:1                    |
|                  | Response Time (ms)      | 22 (typ.)                        | 22 (typ.)                 | 22 (typ.)                 |
|                  | Colors                  | 16.7M                            | 16.7M                     | 16.7M                     |
|                  | Voltage                 | 5V                               | 5V                        | 5V                        |
|                  | Power Consumption       | 39 W                             | 39 W                      | 39 W                      |
|                  | Signal Interface        | 2 channel LVDS                   | 2 channel LVDS            | 2 channel LVDS            |
|                  | Weight                  | 1800 g                           | 2600 g                    | 2600 g                    |
|                  | Dimensions (W x H x D)  | 497.7 x 292.2 x 10.5 mm          | 497.7 x 292.2 x 10.5 mm   | 497.7 x 292.2 x 10.5 mm   |
| LED Driver Board | Efficiency              | 90%                              | 90%                       | 90%                       |
|                  | Input Current & Voltage | 3250 mA / 12 V (Max.)            | 3250 mA / 12 V (Max.)     | 3250 mA / 12 V (Max.)     |
|                  | Dimensions (W x H x D)  | 80 x 54.2 x 10 mm                | 80 x 54.2 x 10 mm         | 80 x 54.2 x 10 mm         |
|                  |                         |                                  |                           |                           |
| Touch Screen     | Touch Screen            | NA                               | 5-wire Resistive          | Projected Capacitive      |
|                  | Transparency            | NA                               | 80± 3%                    | 87± 2%                    |
|                  | Interface               | NA                               | USB                       | USB                       |
|                  | Surface Treatment       | NA                               | AG                        | Clear                     |
|                  | Black Print             | NA                               | NA                        | Yes                       |
|                  | Durability              | NA                               | 10 million times          | No limit                  |
| Environment      | Operating Temperature   | 0 ~ 60 °C                        | 0 ~ 60 °C                 | 0 ~ 60 °C                 |
|                  | Storage Temperature     | -20 ~ 60 °C                      | -20 ~ 60 °C               | -20 ~ 60 °C               |
|                  | Humidity                | 10 ~ 90% @ 40 °C, non-condensing |                           |                           |

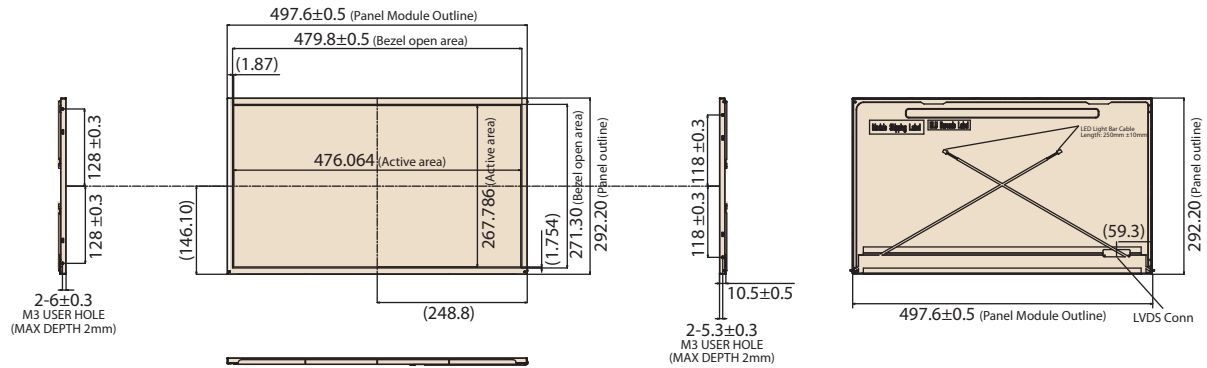
### No Color Shift



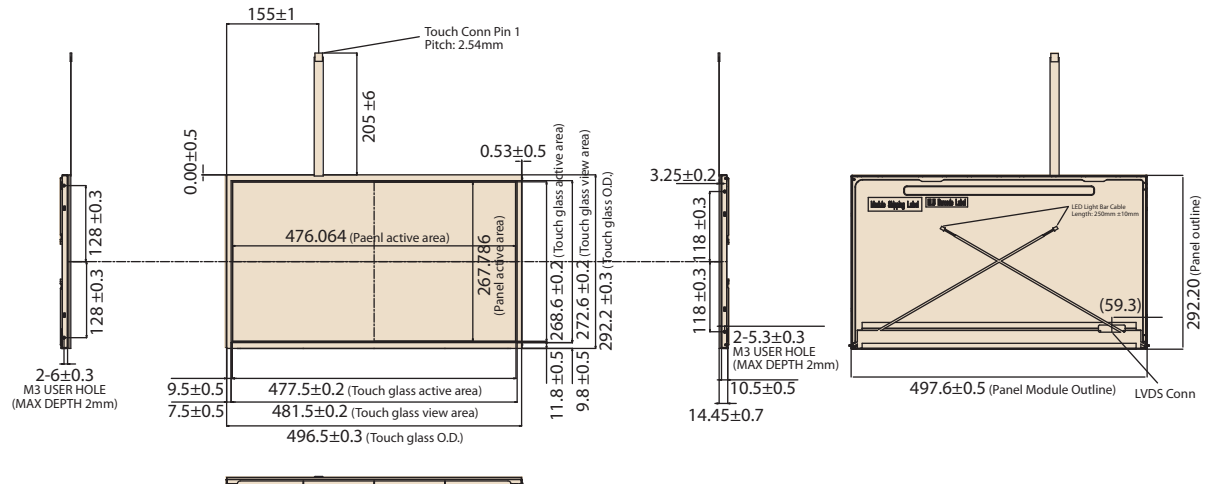
# Dimensions

Unit: mm

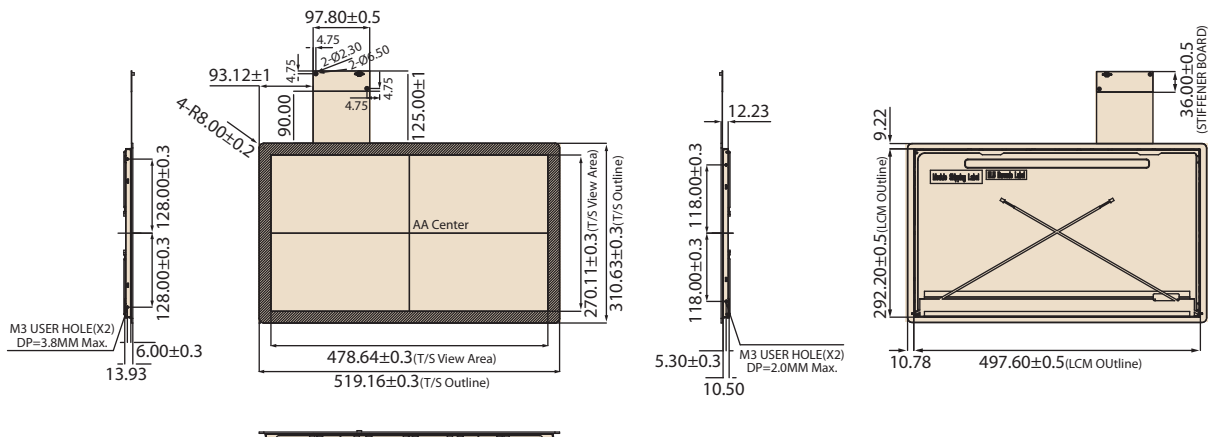
## IDK-2121WN-K2FHB1



## IDK-2121WR-K2FHB1



## IDK-2121WP-K2FHB1



| Part No.          | Size  | LCD Brightness (cd/m²) | Interface | Touch screen         | Touch Interface |
|-------------------|-------|------------------------|-----------|----------------------|-----------------|
| IDK-2121WN-K2FHB1 | 21.5" | 1200                   | LVDS      | N/A                  | N/A             |
| IDK-2121WR-K2FHB1 | 21.5" | 1200                   | LVDS      | 5-wire Resistive     | RS-232/USB      |
| IDK-2121WP-K2FHB1 | 21.5" | 1200                   | LVDS      | Projected Capacitive | USB             |

| Part Number       | Description                                              |
|-------------------|----------------------------------------------------------|
| 968DD00038        | 1 x LED driver board                                     |
| ETM-RES04C-EEH4EE | 1 x 5-wire USB touch controller (for IDK-2121WR only)    |
| 1700020324-01     | 1 x USB cable for Touch controller (for IDK-2121WR only) |
| 1700028184-01     | 1 x USB cable for Touch controller (for IDK-2121WP only) |

| SBC Part No. | LVDS cable P/N | Display interface             | B/L cable P/N                     | Touch interface | Touch power input |
|--------------|----------------|-------------------------------|-----------------------------------|-----------------|-------------------|
| MIO-5270     | 96CB-L3040PAF5 | Dual channel 24bit LVDS (FHD) | N/A (external power was required) | USB             | 5V                |
| AIMB-270     | 96CB-L3040PAF5 | Dual channel 24bit LVDS (FHD) | N/A (external power was required) | USB             | 5V                |

**ADVANTECH** | Industrial Display Solutions

# Mouser Electronics

Authorized Distributor

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

[Advantech:](#)

[IDK-2121WR-K2FHB1](#) [IDK-2121WP-K2FHB1](#)