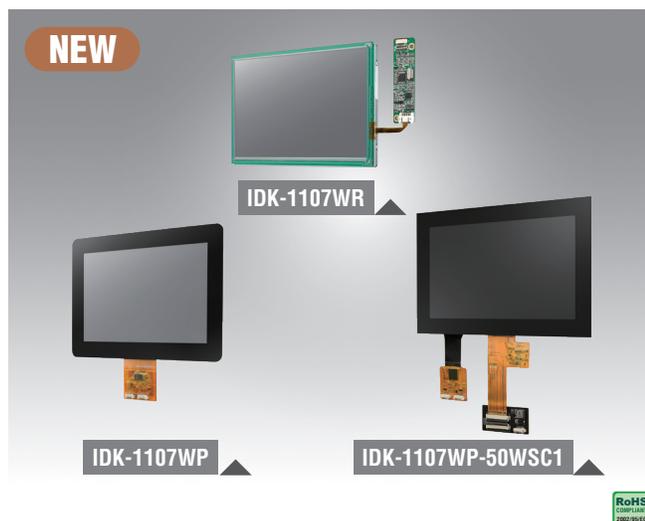


# IDK-1107W

## 7" WVGA/WSVGA Industrial Display kit with Touch Solution



### Features

- 7" LCD supports 800 x 480 & 1024 x 600 pixels and wide operating temperature (-20 ~ 70 °C)
- Brightness of 500 cd/m<sup>2</sup> with LED backlight
- 4-wire resistive and Projected Capacitive touch solution
- LVDS signal interface
- LED driver board built in
- Touch controller included (USB)
- AR surface treatment (Customized request)
- Optical bonding (Customized request)

### Introduction

The Advantech IDK-1107W series comes with a 7" industrial grade LCD display with 4-wire resistive and Projected Capacitive touch. The series is also available with flexible options for LCD screens enhanced treatment such as anti-reflection surface treatment and optical bonding solution. IDK-1107W series with low power consumption is ideal for embedded applications that give customers maximum flexibility for mechanical design.

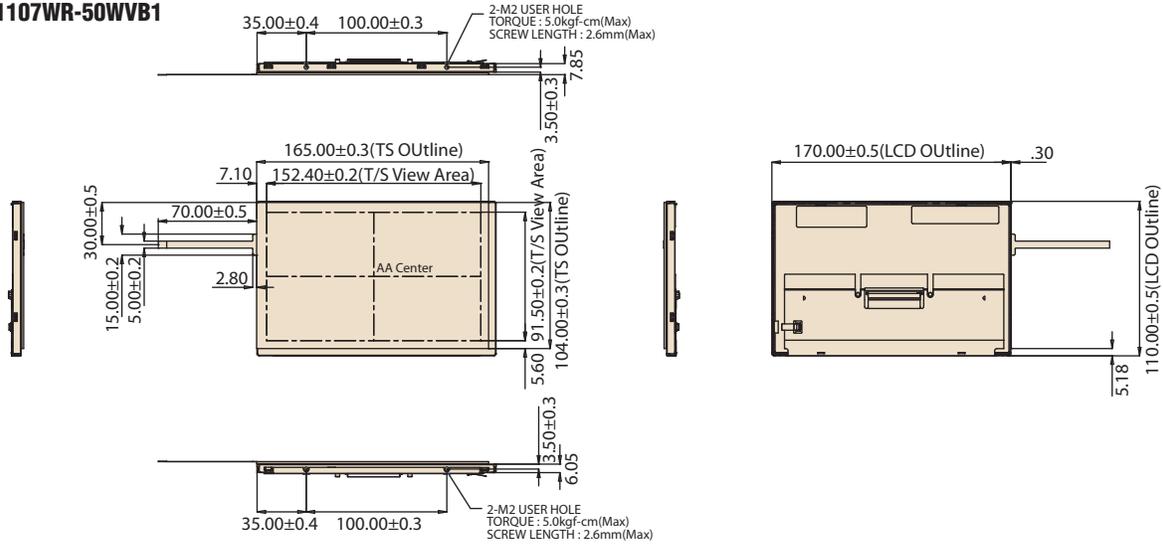
### Specifications

Model		IDK-1107WR-50WVB1	IDK-1107WP-50WVB1	IDK-1107WR-50WSA1E	IDK-1107WP-50WSA1	IDK-1107WP-50WSC1
LCD Panel	Display Size	7"	7"	7"	7"	7"
	Resolution	800 x 480	800 x 480	1024 x 600	1024 x 600	1024 x 600
	Display mode	Normally Black(IPS Based)	Normally Black(IPS Based)	Normally White(TN)	Normally Black(IPS)	Normally white(TN)
	Viewing Angle (U/D/L/R)	89 °/ 89 °/ 89 °/ 89 °	89 °/ 89 °/ 89 °/ 89 °	70 °/ 75 °/ 75 °/ 75 °	85° / 85° / 85° / 85°	60° / 70° / 80° / 80°
	Brightness	500 cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
	Backlight Life (hrs)	50,000	50,000	50,000	30,000	30,000
	Contrast Ratio	800:1	800:1	700:1	800:1	800:1
	Response Time (ms)	25 ms	25 ms	25 ms	25 ms	25 ms
	Colors	6 Bit (262K)/ 8 Bit (16.7 M)	6 Bit (262K)/ 8 Bit (16.7 M)	6 Bit (262K)/ 8 Bit (16.2 M)	8 Bit (16.7 M)	6 Bit+FRC (16.7M)
	LCD Input Voltage	3.3 V	3.3 V	3.3 V	3.3 V	3.3V
	Consumption	2.48W	2.48W	3.57 W	4.8W	3.73W
	Signal Interface	1 channel LVDS	1 channel LVDS	1 channel LVDS	LVDS	LVDS
	Weight	182.8g	182.8g	190 g	210 g	131 g
	Dimensions (W x H x D)	170 x 110 x 6 mm	170 x 110 x 6 mm	165.5 x 104.44 x 8.97 mm	164.9 x 100.0 x 8.25 mm	164.9 x 100 x 4.8 mm
Touch Screen	Touch Screen	4-wire Resistive	Projected Capacitive	4-wire Resistive	Projected Capacitive	Projected Capacitive
	Transparency	82.5± 2.5%	90± 3%	82.5± 2.5%	90± 3%	≥86%
	Surface Hardness	3H	7H	3H	7H	7H
	Durability	1 million times	100 million times	1 million times	100 million times	100 million times
Environment	Operating Temperature	-5 ~ 60 °C	-20 ~ 70 °C	-20 ~ 70 °C	-20 ~ 70 °C	-20 ~ 70 °C
	Storage Temperature	-30 ~ 70 °C	-30 ~ 80 °C	-30 ~ 80 °C	-30 ~ 80 °C	-30 ~ 80 °C

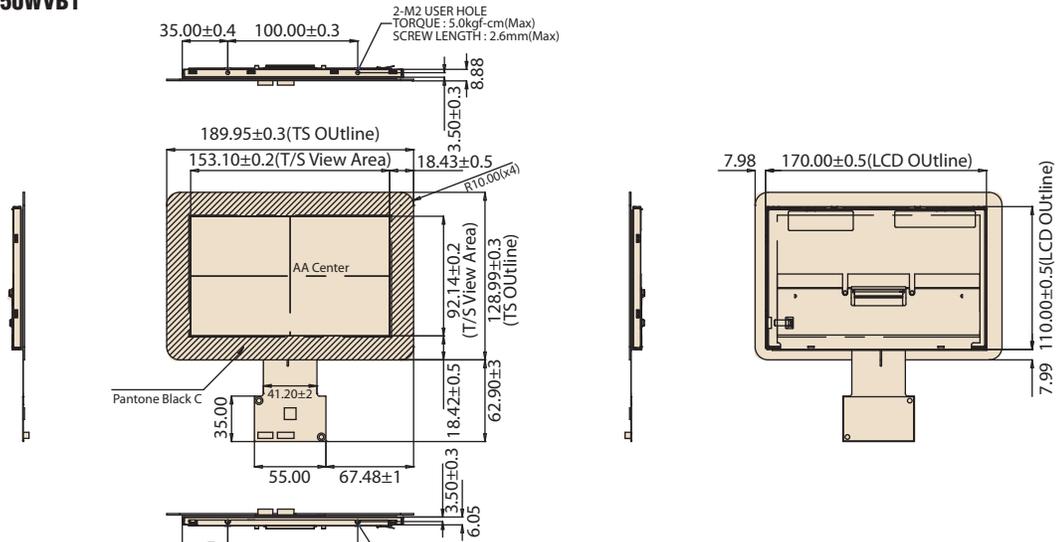
**Dimensions**

Unit: mm

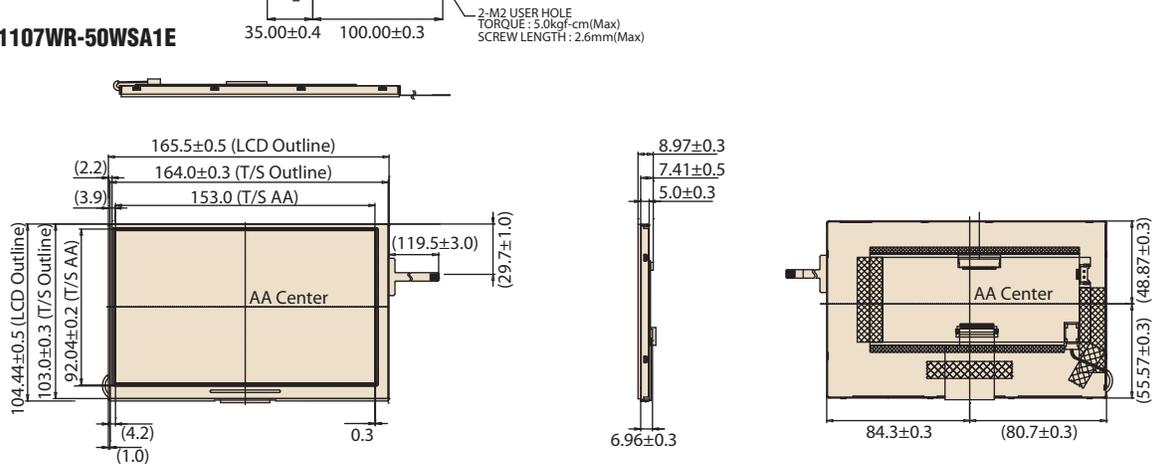
**IDK-1107WR-50WVB1**



**IDK-1107WP-50WVB1**

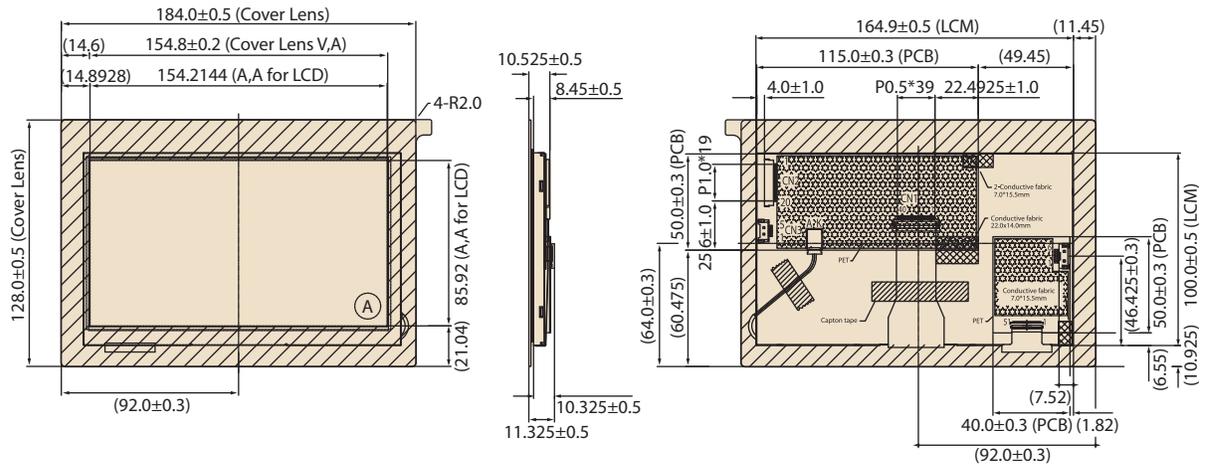


**IDK-1107WR-50WSA1E**

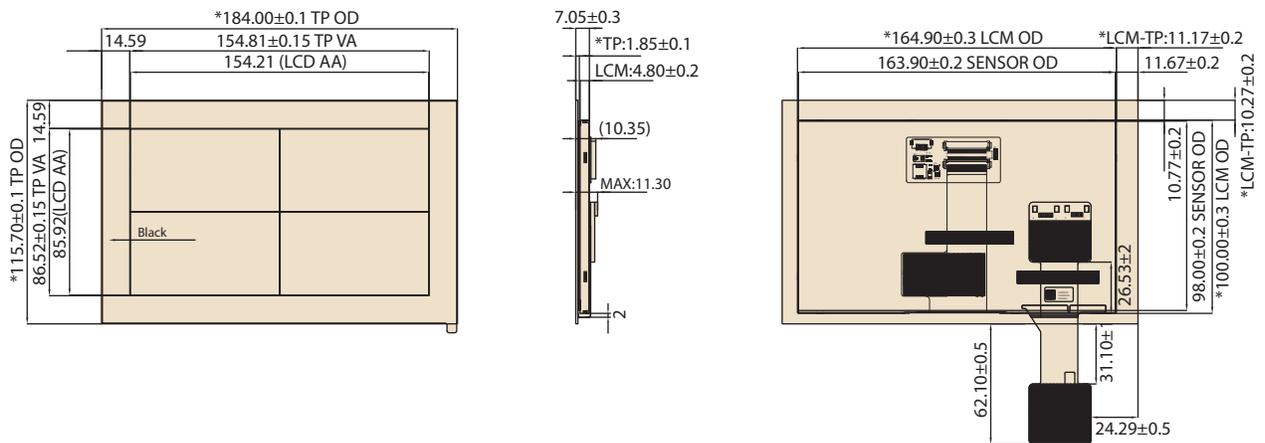


## Dimensions

### IDK-1107WP-50WSA1



### IDK-1107WP-50WSC1



## Ordering Information

Part No.	Size	Brightness (cd/m <sup>2</sup> )	Interface	Touch screen	Touch Interface
IDK-1107WR-50WVB1	7"	500	LVDS	4-wire Resistive	USB
IDK-1107WP-50WVB1	7"	500	LVDS	Projected Capacitive	USB
IDK-1107WR-50WSA1E	7"	500	LVDS	4-wire Resistive	USB
IDK-1107WP-50WSA1	7"	500	LVDS	Projected Capacitive	USB
IDK-1107WP-50WSC1	7"	500	LVDS	Projected Capacitive	USB

## Optional Order

### For IDK-1107WR-50WVB1 & IDK-1107WP-50WVB1

SBC Part No.	LVDS & B/L Cable P/N	Display Interface	Touch Interface	Touch Power Input
MIO-5272	96CB-L3045PCG4	LVDS: Single channel 18bit	USB	5V
PCM-9310	96CB-L3045PCG4	LVDS: Single channel 18bit	USB	5V
AIMB-272	96CB-L3045PCG4	LVDS: Single channel 18bit	USB	5V

### For IDK-1107WR-50WSA1E

SBC Part No.	LVDS Cable P/N	Display Interface	B/L Cable P/N	Touch Interface	Touch Power Input
MIO-5272	96CB-L2040PID4	LVDS: Single channel 18bit	96CB-E0505PAC3	USB	5V
PCM-9363	96CB-L2020PID2	LVDS: Single channel 18bit	96CB-E0505PAC3	USB	5V
AIMB-223	96CB-L2040PID4	LVDS: Single channel 18bit	96CB-E0505PAC3	USB	5V

## Packing List

Part Number	Description
ETM-RES05C-EEH4EE	1 x 4-wire USB Touch controller (for "Resistive touch" series)
1700020324-01	1 x USB Touch cable 5P-2.0/USB-A (M) 180CM (for "Resistive touch" series)
1700024865-01	1 x USB Touch cable 5P-2.0/USB-A (M) 180CM (for "Projected Capacitive" series)
1700034344-01	1 x USB Touch cable 1x6P-1.25/USB-A 4P(M) 180cm (for "Projected Capacitive" series)

Note: Package contents are subject to change without prior notice

## Resistive Touch Controller

