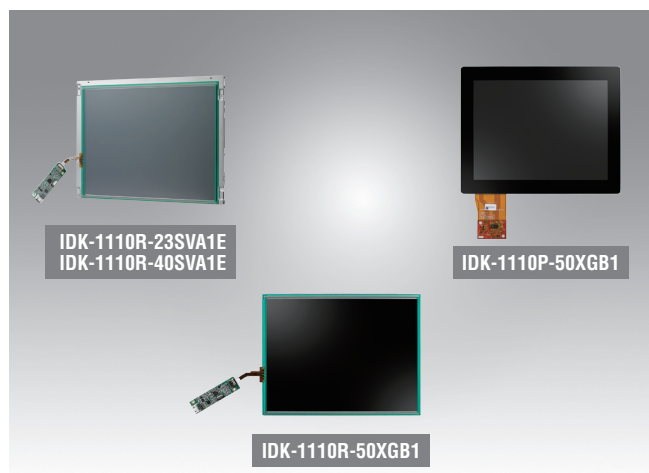


IDK-1110

10.4" SVGA/XGA Industrial Display kit with Touch Solution



Features

- 10.4" LCD supports 800 x 600 and 1024 x 768 restitution
- 4-wire resistive and projected capacitive touch solutions
- LVDS signal interface
- LED driver board built in
- Touch controller included (USB)
- Anti-Reflection surface treatment (customized solution)
- Optical bonding (customized solution)

Note: The panel kits need extra LVDS and backlight cables to connect to single board computer.



Introduction

The Advantech IDK-1110 series comes with a 10.4" industrial grade LCD display with 4-wire resistive 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-1110 series supports 4-wire resistive and projected capacitive touch with low power consumption. IDK-1110 series is ideal for embedded applications which customers have maximum flexibility for mechanical design.

Specifications

	Model	IDK-1110R-23SVA1E	IDK-1110R-40SVA1E	IDK-1110R-50XGB1	IDK-1110P-50XGB1
LCD Panel	Size	10.4", 4:3	10.4", 4:3	10.4", 4:3	10.4", 4:3
	Resolution	800 x 600	800 x 600	1024 x 768	1024 x 68
	Display mode	Normally White	Normally White	Normally Black	Normally Black
	Viewing Angle (U/D/L/R)	60 °/ 70 °/ 80 °/ 80 °	60 °/ 70 °/ 80 °/ 80 °	88 °/88 °/88 °/88°(Full view)	88 °/88 °/88 °/88°(Full view)
	Brightness (cd/m ²)	230	400	500	500
	Backlight Life (hrs)	30,000	50,000	50,000	50,000
	Contrast Ratio	500 : 1	700 : 1	1000:1	1000:1
	Colors	6 Bit (262K)/8 bit (16.2 M)	6 Bit (262K)/8 bit (16.2 M)	6 Bit (262K)/8 bit (16.2 M)	6 Bit (262K)/8 bit (16.2 M)
	LCD Input Voltage (V)	3.3	3.3	3.3	3.3
	Power Consumption (W)	3.5	2.88	7.47	7.47
	Signal Interface	1 channel LVDS	1 channel LVDS	1 channel LVDS	1 channel LVDS
	Weight	470	530	320	320
	Dimensions (W x H x D) (mm)	236 x 176.9 x 7.5	243 x 184 x 8.3	225.5 x 176.3 x 8.7	225.5 x 176.3 x 8.7
Touch Screen	Touch Screen	4-wire Resistive	4-wire Resistive	4-wire Resistive	Projected Capacitive
	Transparency	82.5%	82.5%	82.5%	90± 3%
	Surface Hardness	3H	3H	3H	Mohs 5H
	Durability	1 million times	1 million times	1 million times	-
	Surface Treatment	Anti-Glare	Anti-Glare	Anti-Glare	No treatment
Environment	Black Border	NA	NA	NA	Yes
	Operating Temperature	-10 ~ 60 °C	-10 ~ 60 °C	-10 ~ 60 °C	-20~70 °C
	Storage Temperature	-20 ~ 70 °C	-30 ~ 70 °C	-20 ~ 70 °C	-30 ~ 80 °C
	Humidity	90% @ 39 °C, non-condensing	90% @ 39 °C, non-condensing	90% @ 39 °C, non-condensing	90% @ 39 °C, non-condensing

Full View Display

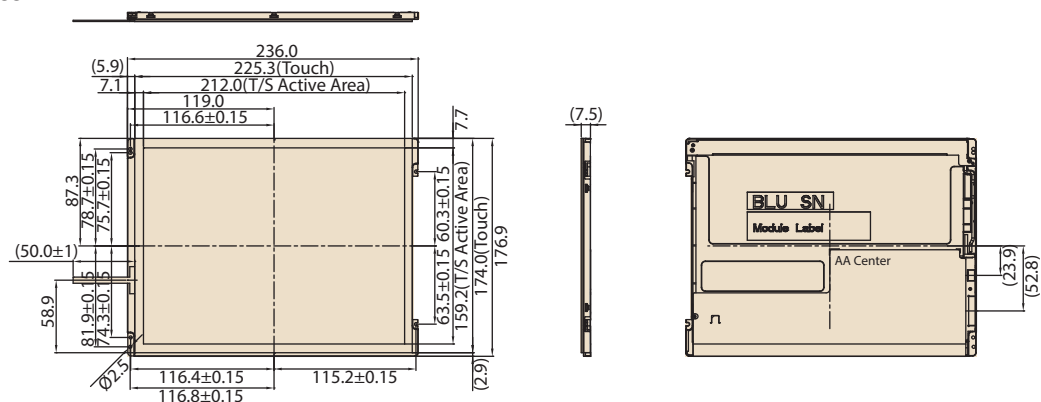


No Color Shift

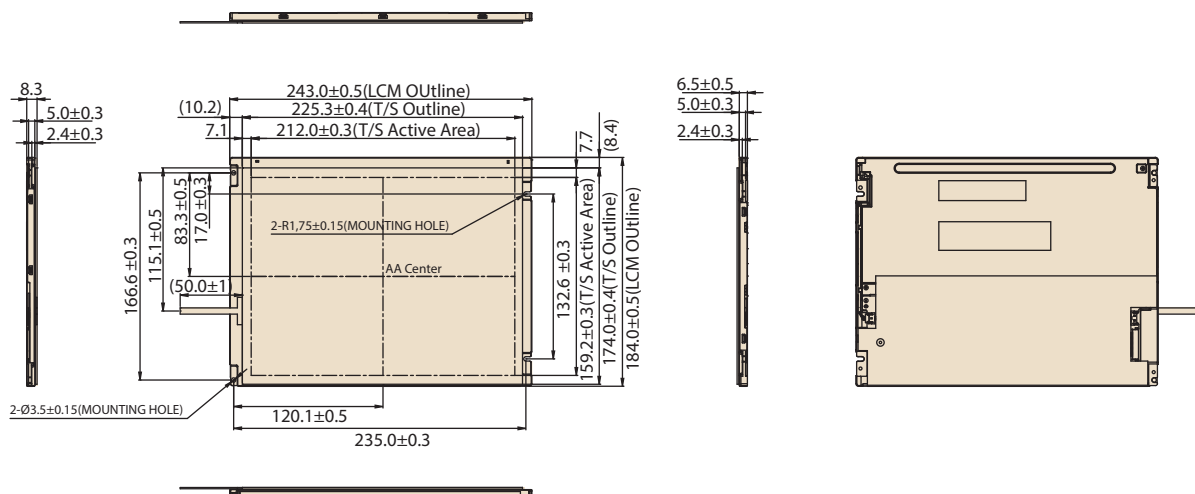
Dimensions

Unit: mm

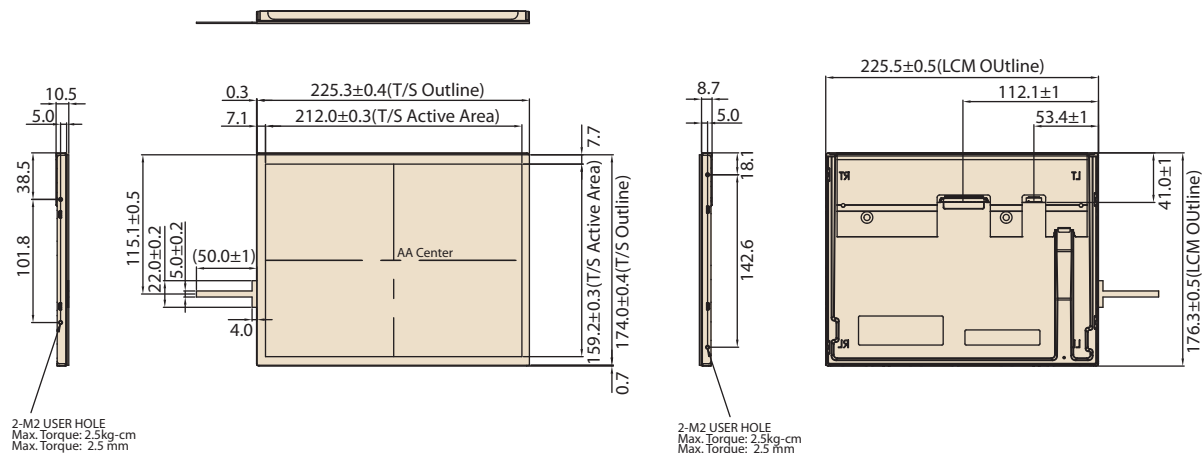
IDK-1110R-23SVA1E



IDK-1110R-40SVA1E



IDK-1110R-50XGB1

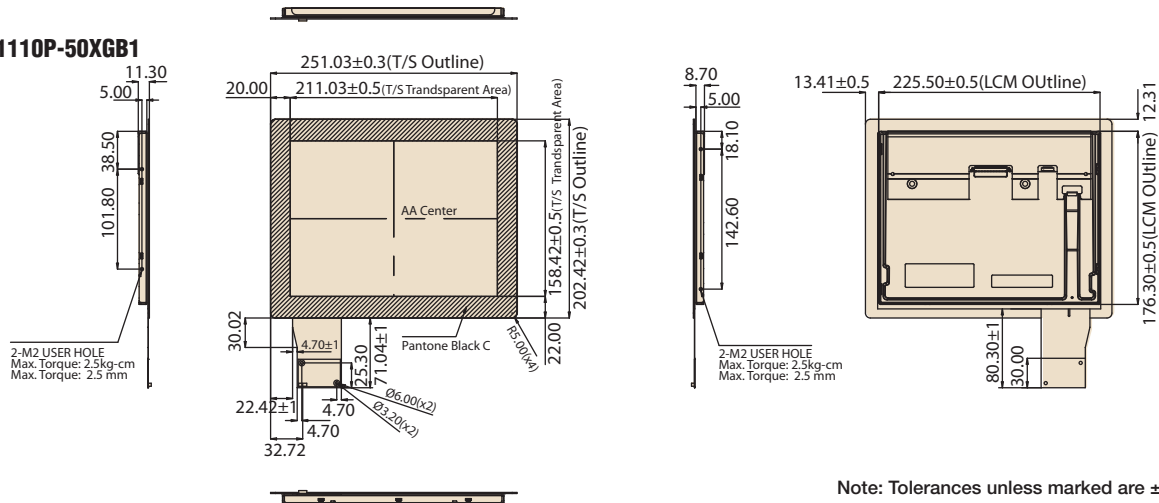


Note: Tolerances unless marked are $\pm 0.5\text{mm}$

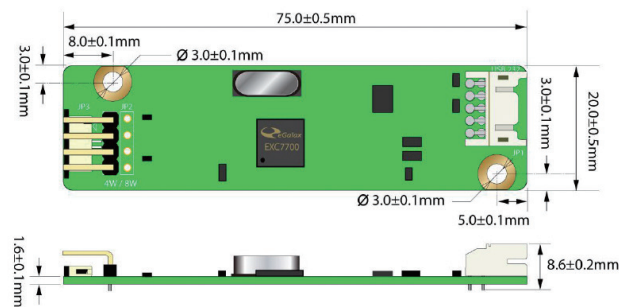
Dimensions

Unit: mm

IDK-1110P-50XGB1



Touch Controller for resistive solution



Ordering Information

Part No.	Size	Brightness (cd/m ²)	Interface	Touch screen	Touch Interface
IDK-1110R-23SVA1E (Economical)	10.4"	230	LVDS	4-wire Resistive	USB
IDK-1110R-40SVA1E	10.4"	400	LVDS	4-wire Resistive	USB
IDK-1110R-50XGB1	10.4"	500	LVDS	4-wire Resistive	USB
IDK-1110P-50XGB1	10.4"	500	LVDS	Projected Capacitive	USB

Packing List

Part Number	Description
ETM-RES05C-EEH4EE	1 x 4-wire USB Touch controller for Resistive Solution
1700020324-01	1 x 180cm USB Touch cable for Resistive solution
1700027288-01	1 x 180cm USB Touch cable for PCT solution

Note: Package contents are subject to change without prior notice

Optional Order

IDK-1110R-23SVA1E & IDK-1110R-40SVA1E

SBC Part No.	LVDS cable P/N	Display interface	B/L cable P/N	Touch interface	Touch power input
MIO-5270	96CB-L2040PAC4	Single channel 18bit LVDS (SVGA)	96CB-E0505PAC3	USB	5V
PCM-9362	96CB-L2020PAC2	Single channel 18bit LVDS (SVGA)	96CB-E0505PAC3	USB	5V
AIMB-270	96CB-L2040PAC4	Single channel 18bit LVDS (SVGA)	96CB-E0505PAC3	USB	5V

IDK-1110R-50XGB1 & IDK-1110P-50XGB1

SBC Part No.	LVDS cable P/N	Display interface	B/L cable P/N	Touch interface	Touch power input
MIO-5270	96CB-L3040PCI4	Single channel 18bit LVDS (XGA)	96CB-E1005PCB3	USB	5V
PCM-9362	96CB-L3020PCI2	Single channel 18bit LVDS (XGA)	96CB-E1005PCB3	USB	5V
AIMB-270	96CB-L3040PCI4	Single channel 18bit LVDS (XGA)	96CB-E1005PCB3	USB	5V

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