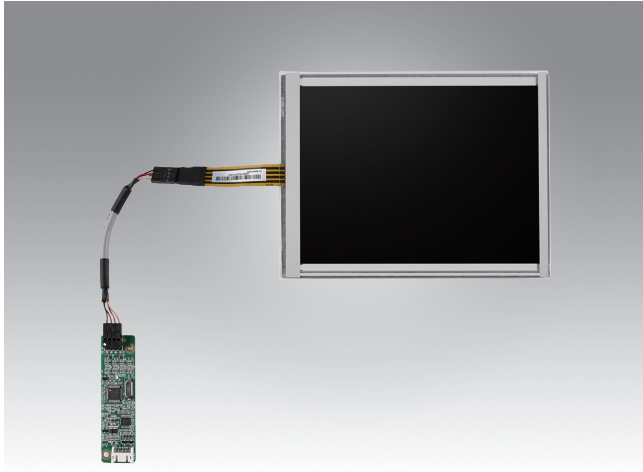# IDK-1106R-80VGA1

6.5" VGA Industrial Display kit with Touch Solution

Features

- 6.5" LCD supports 640 x 480 pixels and wide operating temperature (-10 ~ 60 °C)
- Brightness of 800 cd/m²
- 4-wire resistive touch solution
- High contrast ratio of 1000:1
- LVDS signal interface
- Low power consumption 2.27 W
- LED driver built in
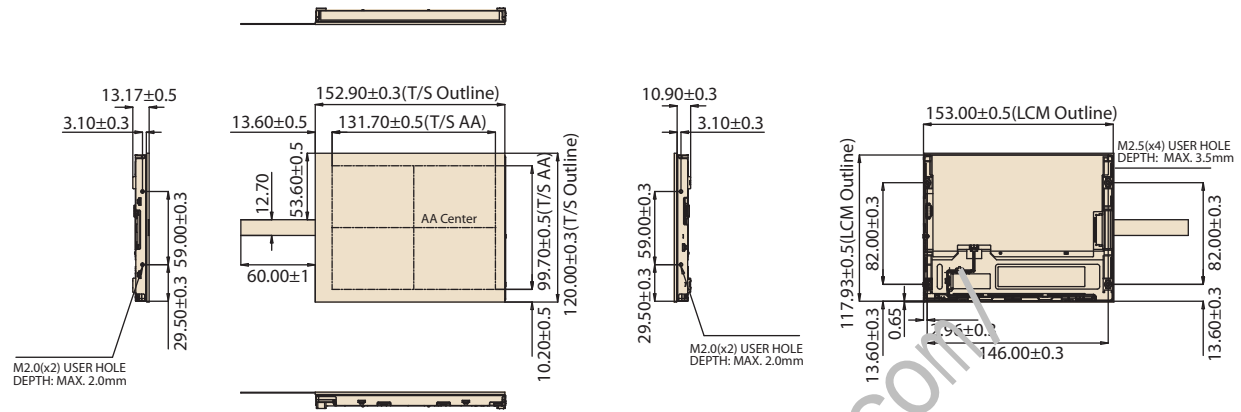- Touch control board included (USB)

Introduction

The Advantech IDK-1106R series comes with a 6.5" 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-1106R series supports 4-wire resistive touch with low power consumption at the maximum of 2.27 W. IDK-1106R series is ideal for embedded applications which customers have maximum flexibility for mechanical design.

Specifications

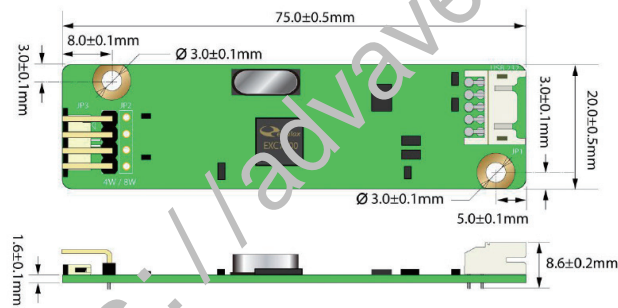|		
LCD Panel	Display Size	6.5", 4:3
	Resolution	640 x 480 (VGA)
	Display Mode	Normally Black
	Viewing Angle (U/D/L/R)	89°/89°/89°/89°
	Brightness	800 cd/m²
	Backlight Life (hrs)	70,000 hrs
	Contrast Ratio	1000 : 1
	Response Time (ms)	25 ms
	Colors	6 Bit (262K)/8 bit (16.7 M)
	Voltage	3.3 V Power
	Consumption	2.27 W
	Signal Interface	1 channel LVDS
	Weight	170g
	Dimensions (W x H x D)	153.0 x 118.0 x 10.9 mm
Touch Screen	Touch Screen	4-wire Resistive
	Transparency	82.5± 2.5%
	Surface Hardness	3H
	Durability	1 million times
Environment	Operating Temperature	-10 ~ 60 °C
	Storage Temperature	-30 ~ 70 °C
	Humidity	10 ~ 90% @ Max. 38 °C, non-condensing

Dimensions

Unit: mm

13.17±0.5
3.10±0.3
152.90±0.3(T/S Outline)
131.70±0.5(T/S AA)
13.60±0.5
53.60±0.5
12.70
AA Center
60.00±1
99.70±0.5(T/S AA)
120.00±0.3(T/S Outline)
10.20±0.5
59.00±0.3
29.50±0.3

M2.0(x2) USER HOLE
DEPTH: MAX. 2.0mm

10.90±0.3
3.10±0.3
59.00±0.3
29.50±0.3

M2.0(x2) USER HOLE
DEPTH: MAX. 2.0mm

153.00±0.5(LCM Outline)
M2.5(x4) USER HOLE
DEPTH: MAX. 3.5mm
117.93±0.5(LCM Outline)
82.00±0.3
82.00±0.3
13.60±0.3
0.65
2.90±0.3
146.00±0.3
13.60±0.3

Note: Tolerances unless marked are ±0.5mm

Touch Controller

75.0±0.5mm
8.0±0.1mm
3.0±0.1mm
Ø 3.0±0.1mm
3.0±0.1mm
20.0±0.5mm
Ø 3.0±0.1mm
5.0±0.1mm
4W / 8W
1.6±0.1mm
8.6±0.2mm

Ordering Information

Part No.	Size	Brightness (cd/m²)	Interface	Touch screen	Touch Interface
IDK-1106R-80VGA1	6.5"	800	LVDS	4-wire Resistive	USB

Packing List

Part Number	Description
9680002154	1 x 4-wire USB Touch controller
1700004131	A Cable 1 x 10P-2.0/USB-A(M) 180CM
1700005912	A Cable 2 x 4P-2.54/1*4P-2.54 10CM

Note: Package contents are subject to change without prior notice

Optional Order

SBC Part No.	LVDS Cable Part No.	Display Interface	B/L Cable Part No	Touch Interface	Touch Power Input
MIO-5270	96CB-L2040PAA4	18bit LVDS	96CB-E0605PAA3	USB	5 V
AIMB-270	96CB-L2040PAA4	18bit LVDS	96CB-E0605PAA3	USB	5 V

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