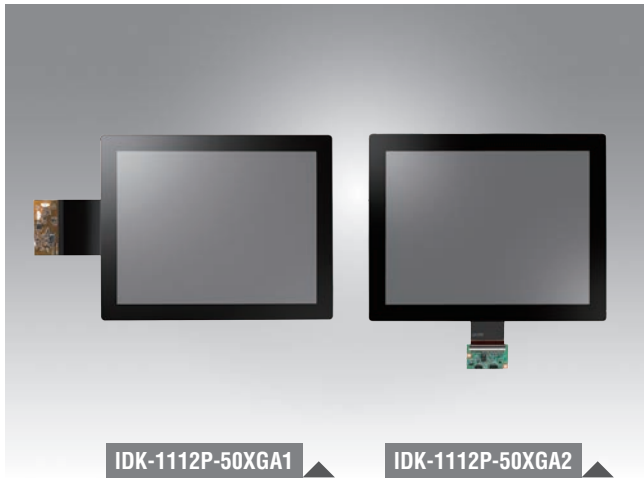


IDK-1112P

12.1" XGA Industrial Display kit with PCT Touch Solution



Features

- 12.1" Full view LCD supports 1024 x 768 pixels
- Brightness of 500 cd/m² with LED backlight
- Projected Capacitive touch solution
- High contrast ratio of 1000:1
- Wide view angle of 178°/178°
- LVDS signal interface
- Low power consumption 9.62 W (panel only)
- Touch controller included (USB)
- Anti-Reflector/Anti-Glare surface treatment (Customized request)
- Optical bonding (Customized request)

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

Introduction

The Advantech IDK-1112P series comes with a 12.1" industrial grade Normally black full view LCD display with Projected Capacitive touch. IDK-1112P series supports Projected Capacitive touch with low power consumption. IDK-1112P series is ideal for embedded applications which customers have maximum flexibility for mechanical design.

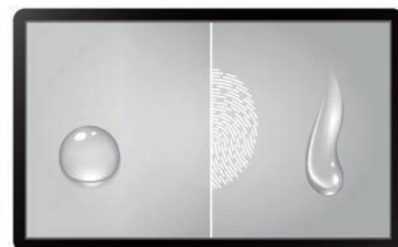
Specifications

PN No.		IDK-1112P-50XGA1	IDK-1112P-50XGA2
LCD Panel	Display Size	12.1", 4:3	12.1", 4:3
	Resolution	1024 x 768	1024 x 768
	Display mode	Normally Black	Normally Black
	Viewing Angle (U/D/L/R)	178° / 178°	178° / 178°
	Brightness	500 cd/m ²	500 cd/m ²
	Backlight Life (hrs)	30,000 min	30,000 min
	Contrast Ratio	1000 : 1	1000 : 1
	Response Time	25 ms	25 ms
	Colors	262k/16.2M	262k/16.2M
	LCD Input Voltage	3.3 V	3.3 V
	Consumption	9.62W (white pattern)	9.62W (white pattern)
	Signal Interface	1 channel LVDS	1 channel LVDS
	Weight	490 g	490 g
Dimensions (W x H x D)	260.5 x 204 x 8.4mm	260.5 x 204 x 8.4mm	
Touch Screen	Touch Type	Projected Capacitive	Projected Capacitive
	Transparency	88 ± 2%	85 ± 2%
	Interface	USB	USB
	Surface Treatment	Clear	Anti-Fingerprint
	Black Border	Yes	Yes
	Control IC	EXC3160 (COF)	EXC80H46 (COB)
Environment	Operating Temperature	-20 ~ 70° C	-20 ~ 70° C
	Storage Temperature	-30 ~ 70° C	-30 ~ 70° C

Full view display



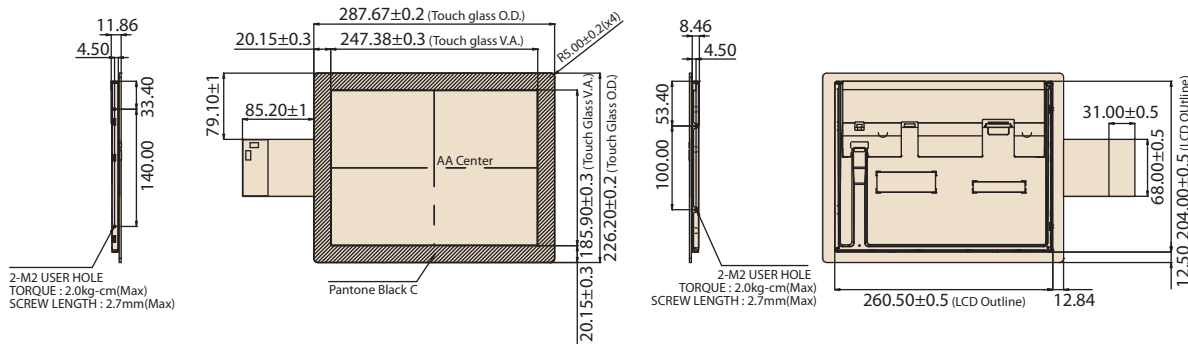
AF v.s Clear



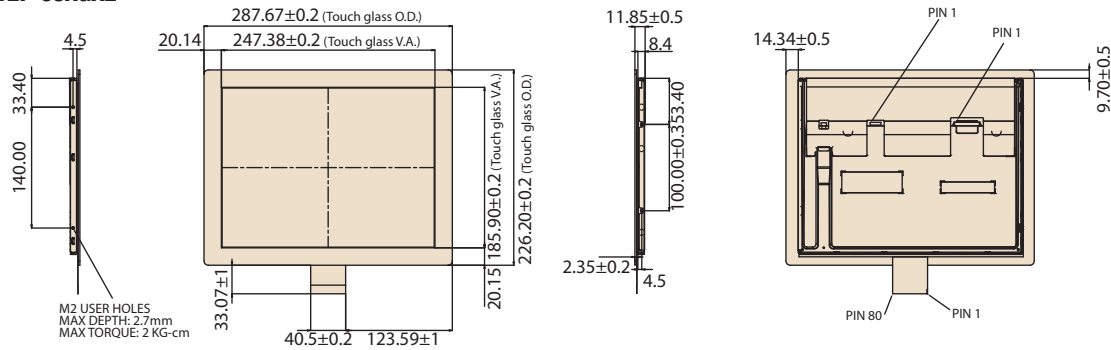
Dimensions

Unit: mm

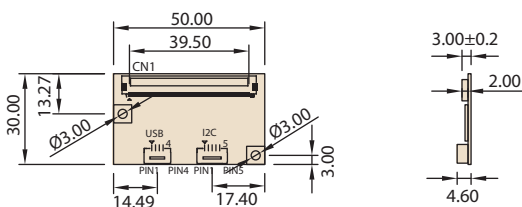
IDK-1112P-50XGA1



IDK-1112P-50XGA2



Touch Controller Board for IDK-1112P-50XGA2



Note: Tolerances unless marked are ±0.5mm

Ordering Information

Part No.	Size	LCD Brightness (cd/m ²)	Interface	Touch screen	Touch Interface
IDK-1112P-50XGA1	12.1"	500	1 Channel LVDS	Projected Capacitive Touch	USB
IDK-1112P-50XGA2	12.1"	500	1 Channel LVDS	Projected Capacitive Touch	USB

Optional Order

SBC Part No.	LVDS cable P/N	Display interface	B/L cable P/N	Touch interface	Touch power input
MIO-5270	96CB-L2040PCC4	18bit LVDS	96CB-E1005PCB3	USB	5 V
AIMB-270	96CB-L2040PCC4 96CB-L2040PCC5	18bit LVDS 24bit LVDS	96CB-E1005PCB3	USB	5 V

Packing List

Part Number	Description
1700024808-01	1 x 180cm USB Touch cable for IDK-1112P-50XGA1
1700032283-01	1 x 180cm USB Touch cable for IDK-1112P-50XGA2
TPM121PFSG00Z	1 x Touch Controller Board for IDK-1112P-50XGA2

Note: Package contents are subject to change without prior notice

Last updated: 21-Jan-2022