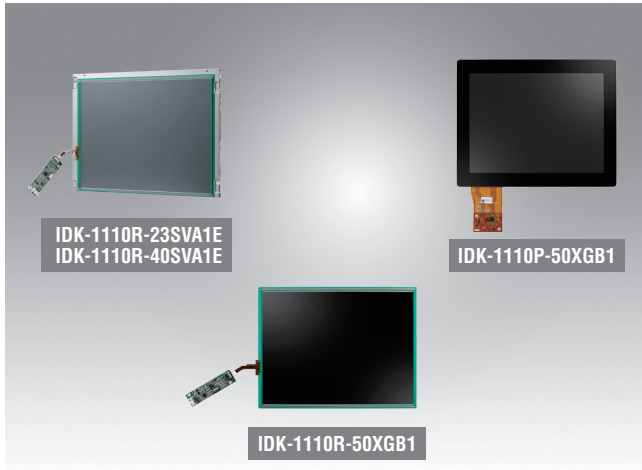


IDK-1110

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

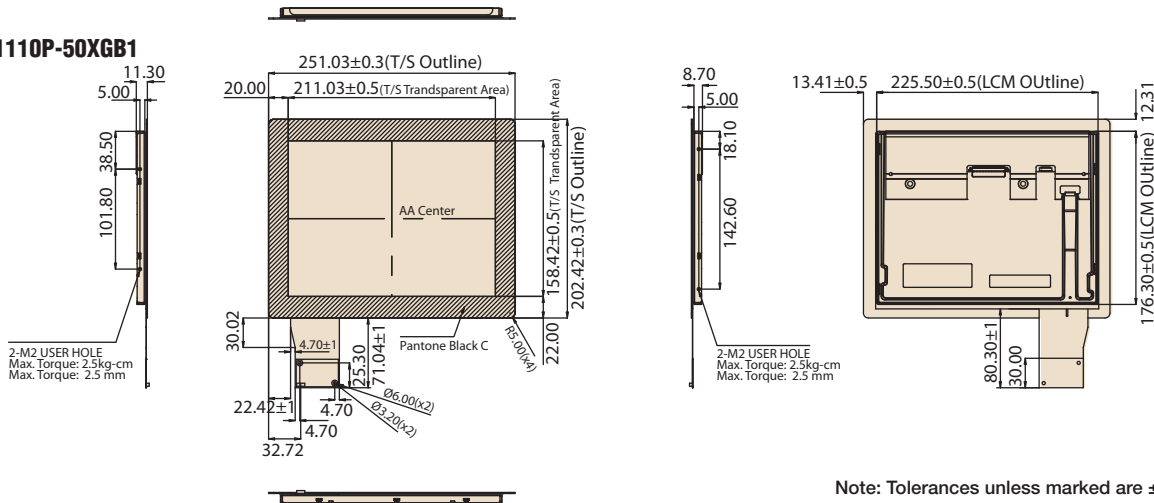


No Color Shift

Dimensions

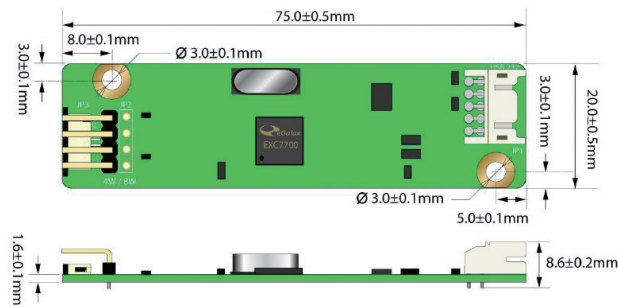
Unit: mm

IDK-1110P-50XGB1



Note: Tolerances unless marked are ±0.5mm

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>