

SKT104-APF03-PSEL

10.4" Open-Frame Monitor with 4mm

Dust Proof SAW Touchscreens



Seleniko 03, S.L.

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Safety Instructions

1. Read these safety instructions carefully.
2. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
3. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
4. Keep this equipment away from humidity.
5. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
6. The openings on the enclosure are for air convection. Protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
7. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
8. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
9. All cautions and warnings on the equipment should be noted.
10. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over voltage.
11. Never pour any liquid into an opening. This may cause fire or electrical shock.
12. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
13. If one of the following situations arises, get the equipment checked by service personnel:
 - A) The power cord or plug is damaged.
 - B) Liquid has penetrated into the equipment.
 - C) The equipment has been exposed to moisture.
 - D) The equipment does not work well, or you cannot get it to work according to the user's manual.
 - E) The equipment has been dropped and damaged.
 - F) The equipment has obvious signs of breakage.
14. **DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -30°C OR ABOVE 85°C. THIS MAY DAMAGE THE EQUIPMENT.**

1.1 Introduction

Your LCD openframe touchmonitor is a 10.4" XGA TFT color display with the following features:

- Bezel seal standard: IEC IP64
- Long lasting product cycle-enclosure controlled by our own specifications
- Future generation panels phased-in without external changes
- High quality panel with high brightness, high contrast ratio and broad viewing angle
- Multiple mounting options including VESA mount, horizontal or vertical bracket-mount
- SAW technology on pure glass for the ultimate in image quality
- Finger or gloved hand operation
- USB and Serial touch interface port
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1.2 Product Features

1.2.1 General

Model	SKT104-APF03-PSEL
Series	Metal-cased openframe
Waterproof ability	Waterproof glue jointed at right side,vertical south side conner (protect monitor from projected rain at right side,vertical south side)
Monitor Dimensions	Width: 257mm Height: 199mm Depth 45.5mm
Weight (N.W/G.W)	2.3Kg /3.2 Kg (Approx.)
LCD Type	10.4 " Active matrix TFT-LCD
Video Input	Accepts RGB input directly, DVI,HDMI and Audio function can be supported optionally
Auto Sunlight Readability	Optional
Recommend Resolution	800×600@60Hz
OSD controls	Allow on-screen adjustments of Brightness, Contrast Ratio, Auto-adjust, Phase, Clock, H/V Location, Languages, Function, Reset
Power Supply	Type: External brick Input (line) voltage: 100-240 VAC, 50-60 Hz Output voltage/current: 12 volts at 4 amps max
Mount Interface	1)VESA 75mm 2)Mount bracket, horizontal or vertical
Regular Warranty	5 years for SAW Sensor; 3 years for controller; 1 year for LCD
Agency Approval	FCC, CE

1.2.2 LCD Specification

Active Area(mm)	211.2x158.4 mm
Resolution	800×600@60Hz
Dot Pitch(mm)	0.088×0.264
Nominal Input Voltage VDD	+3.3V(Typ)
Viewing angle	80/80/60/80(Typ.)(CR≥10) (Left/right/Top/Bottom)
Contrast	700:1
Luminance(cd/m2)	400(Typ.)
Response Time	20/10(Tr/Td) ms
Support Color	16.2M/262K colors
Backlight MTBF(hr)	30000
NOTE:The LCD Specification will change follow the relevant LCD panel brand and model	

1.2.3 Touchscreen Specification

Type	Surface Acoustic Wave(SAW)
Resolution	4096*4096
Light Transmission	92%
Touch Life Cycle	50 millions
Touch Response time	16ms
Touch System Interface	RS-232 and USB interface
Power consumption	+5V@80mA

1.2.4 External AC Power Adapter

Output	12V/DC/4A
Input	100-240 VAC, 50-60 Hz
MTBF	50000 hr at 25°C

1.2.5 Environment

Operating Temp.	-30~85°C
Storage Temp.	-30~85°C
Operating RH:	5%~95%
Storage RH:	5%~95%

1.3 System setup

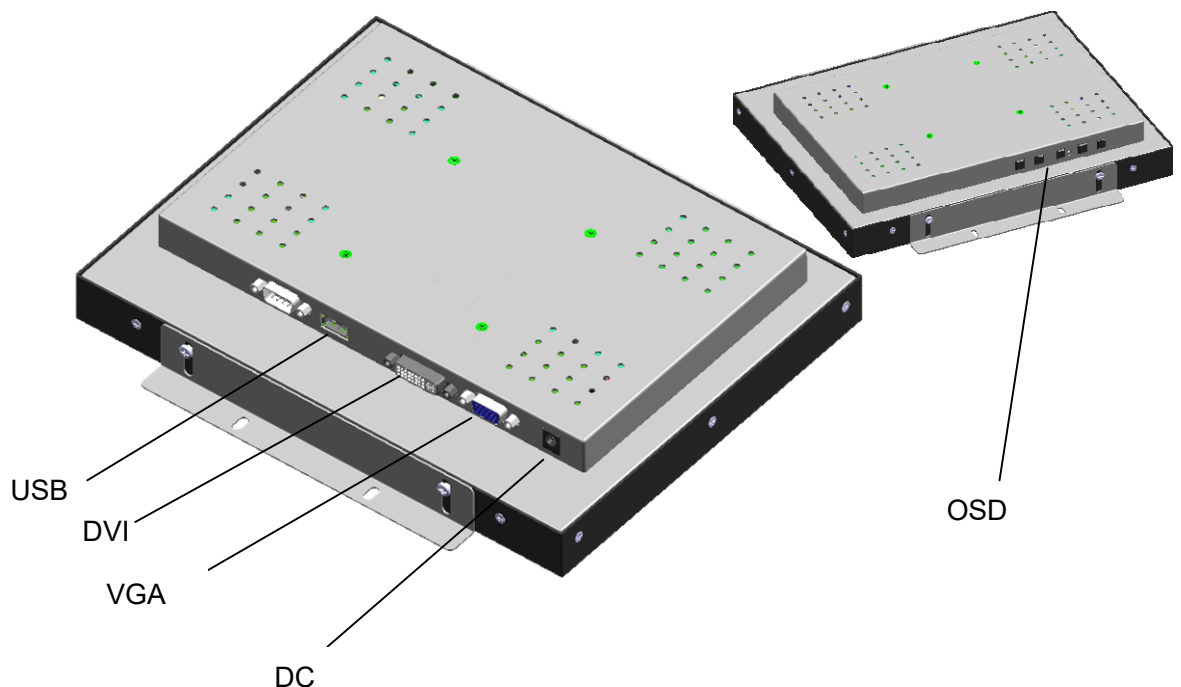
1.3.1 Preparing for First-time Use

Before you start to set up the LCD Monitor, You should have at least the following items ready in your accessory box:

- A) 12V DC Power adapter;
- B) Power cord for adapter;
- C) 1.5m VGA cable;
- D) 1.5m USB cable
- E) **L-brackets:** Two standard L-brackets are included
- F) CD driver for LCD Monitor

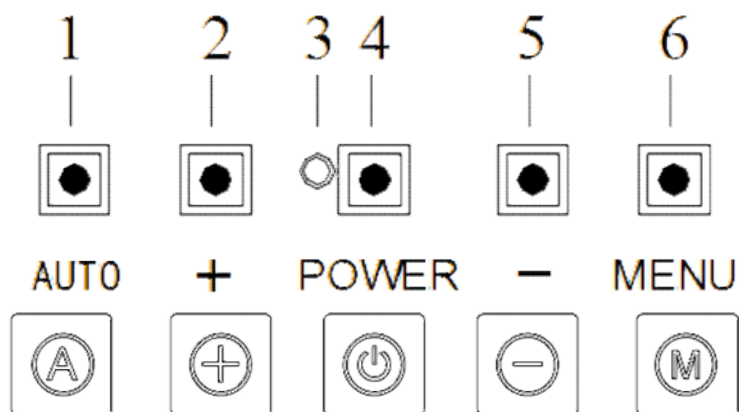
1.3.2 I/O arrangement

The diagram shows the VGA ,DVI port, USB port and DC Power inlet



1.3.3 OSD Control

OSD buttons



Adjusting with OSD control

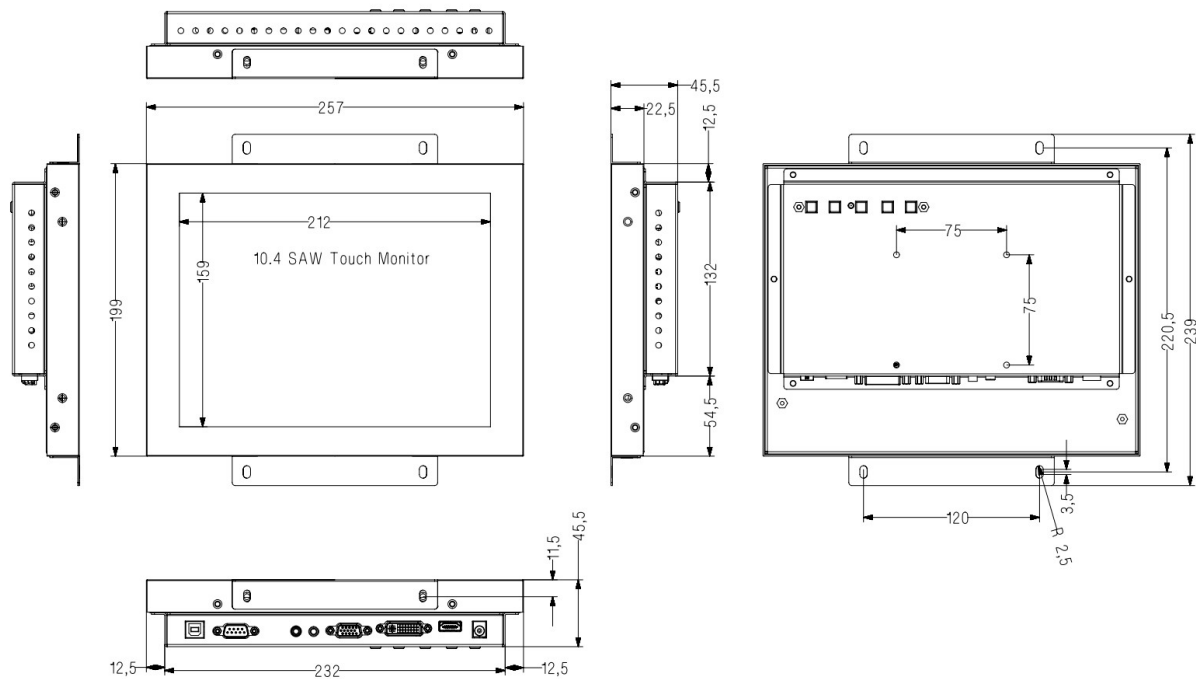
Five different keys are well-defined for operation . They are labeled on the keypad.

- A) **[Power]** Key is designated for Power On/Off
- B) **[Menu]** Key is designated for Menu/Enter function depending on the selected item. Pressing [Menu] can invoke OSD menu. After that, [Menu] is also an entry key.
- C) **[+]** key is designated for selection function in up direction in OSD menu and also to increase the value on selected function.
- D) **[-]** key is designated for selection function in down direction in OSD menu and also to decrease the value on selected function.
- E) **[AUTO]** key is designated for invoking AUTO ADJUST function at any time once is pressed for H-position, V-position, Pixel Clock and Phase for an optimal image.

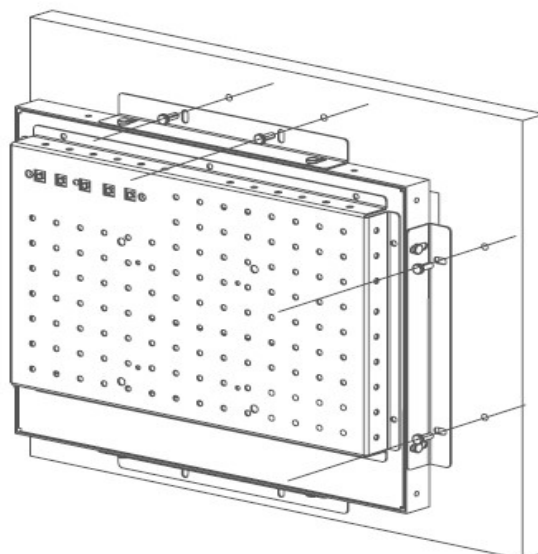
1.3.4 Setup the driver

1. Make sure the Touchscreen Cable is properly connected. The Setup program cannot configure the touchscreen without it.
2. Insert the CD Kit into your PC system's CD drive.
3. Click the SETUP.EXE installation program. The Setup program begins to execute and load the driver.
4. Follow the instructions displayed on the screen. Make your selections carefully when answering questions to complete the installation.

1.4 Mechanical Dimension

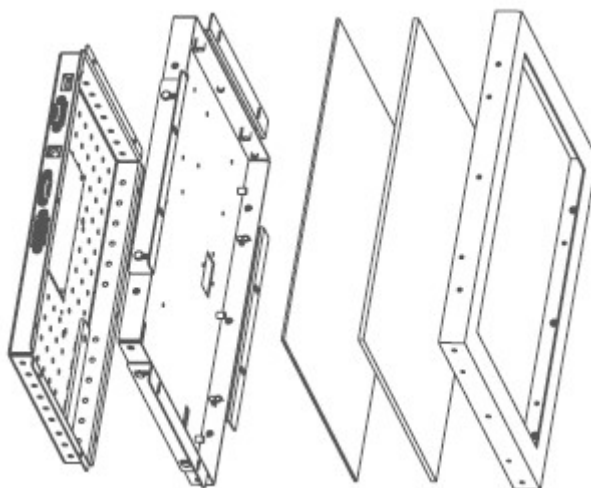


1.4.1 Touch Monitor Mounting guide



1. Build 8 screw studs along the four sides of the cut out opening based on the dimension given on the drawing above.
2. Tighten the screw stud with hex nut and make sure it is stable.

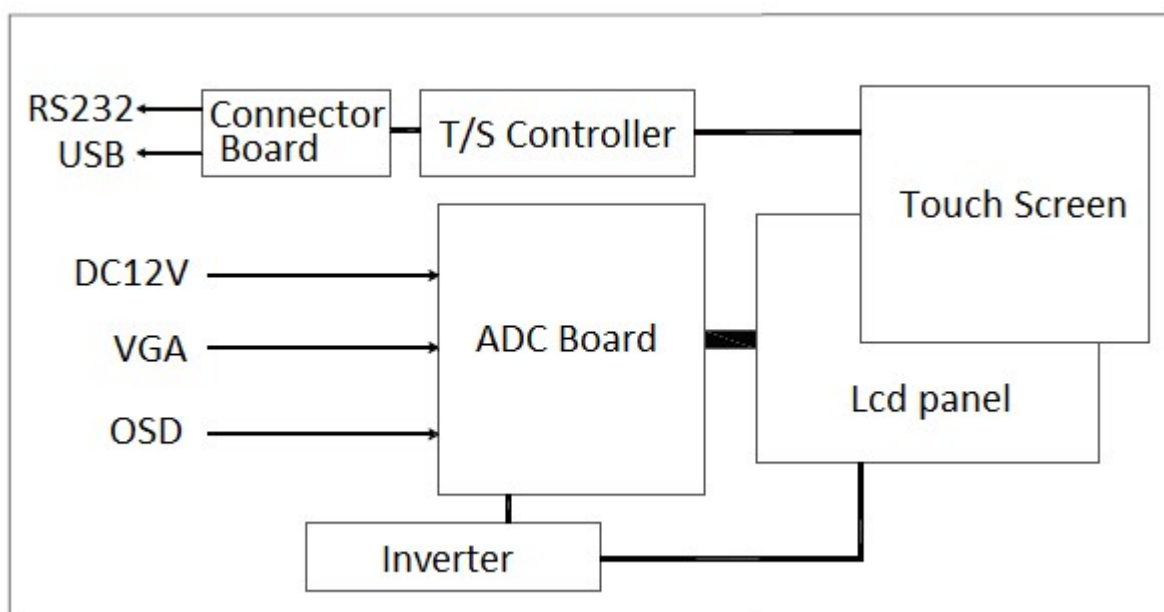
1.4.3 Exploded Diagram



1.5 Electrical Block Diagram

The LCD touch monitor is constructed based on steel open frame architecture. It consists of a 10.4" LCD panel, an DC to AC inverter board to support a set of cold cathode fluorescent light, an analog to digital converter board (AD Board) to convert analog RGB signals to digital ones, and a touch screen used as a pointing device. A metal chassis supports the whole module.

Block Diagram



2.0 Solutions to Common Problems

Problem	Suggestion(s)
The monitor does not respond after you turn on the system	1)Check that the monitor's Power Switch is on. 2)Turn off the power and check the monitor's power cord and signal cable for proper connection.
Characters on the screen are dim	Refer to the About Touch monitor Adjustments section to adjust the brightness.
The screen is blank	1)During operation, the monitor screen may automatically turn off as a result of the Power Saving feature. Press any key to see if the screen reappears. 2) Refer to the About Touch monitor Adjustments section to adjust the brightness.
Screen flashes when initialized	Turn the monitor off then turn it on again.
"Out of Range" display	Check to see if the resolution of your computer is higher than that of the LCD display.
Touch don't work	Make sure the touch cable is securely attached at both ends.

3.0 Typical Application and intended usage

Application

Product is intended only for OEM (Original Equipment Manufacturer) application.
Product used for application on

Industrial control
Gaming/Casino Systems
Outdoor and indoor Kiosks
Entertainment
Transport and Ticketing
Hospitality
Banking
Customised Solutions

Intended usage

Monitor capable of directly connecting to and designed for use with an automatic data processing machine of heading 8471 (HS-CODE: 8528521000).