

SH-5921

PANEL PC

15.0" TFT LCD

(Ver 1.0)

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1 Introduction

The SH-5921, 15" high brightness TFT LCD Panel PC takes advantage of modern flat-panel display technology, coupled with a MINI-ITX-478 MB, one hard drive bay and an integrated power supply to ensure minimum size. It is an IBM PC/ATX compatible computer specially designed to meet the applications in an industrial environment.

1.1 Checklist

ITEM	DESCRIPTION	Q'TY	NOTES
1	SH-5921 User-Manual	1	
2	Power Cord	1	
3	SCERW KIT	1	
4	MINI-ITX-478 MB User-Manual	1	
5	M/B Driver	1	
6	HDD CABLE. (3.5" HDD TO 2.5" HDD)	1	
7	SOKET-478 Cooler	1	Optional
8	Touch Screen Driver		Optional
9	Rack-Mount Kit	1	Optional

1.2 Features

CPU Board

SH-5921 is designed for MINI-ITX-478 MB. The MINI-ITX-478 MB is a Micro-ATX specification board, equipped with a high-performance Socket 478 Celeron Pentium IV® CPU, VGA and 10/100Mbps Ethernet port, designed for system manufacturers, integrators, or VARs to provide the ultimate in performance, reliability, and quality.

LCD Display

The SH-5921 is equipped with a high brightness 15" TFT LCD.

Power Supply

The SH-5921 is equipped with a special size ATX 200W power supply. (Optional with PFC).

Touch Screen (option)

Aluminum front panel supports both resistive and capacity touch screens with RS-232 or USB interface.

HDD

The SH-5921 supports one 2.5" HDD drive bay.

FDD&CD-ROM (option)

The SH-5921 supports one slim size 3.5" FDD & one slim size 5.25" CD-ROM drive bay.

1.3 Specifications

Display Type	15" TFT color
View Angle	70/70/65/55(L/R/T/B)
Resolution	XGA 1024x768
Max. Colors	16.7M colors(r/g/b 8 bit each)
Brightness	300 cd/m ² high luminance
Contrast Ration	500:1
Backlight MTBF	50,000 hrs

Resistive type touch screen (Optional)

Type: Analog Resistive

Resolution: Continuous

Light transmission: Typical value 80±3%

Surface Hardness: 3H

4/5/8-wire touch screen

Support driver: Supports DOS, Windows 3.1, 95, 98, NT/Me/2000, WinCE. NET.

Capacitive type touch screen (Optional)

Type: Analog Resistive

Resolution: Continuous

Light transmission: Typical value 88%

Support driver: Supports DOS, Windows 3.1, 95, 98, NT/Me/2000, WinCE. NET.

Please download the capacitive type driver from wingtop web site.

Environmental specifications

Operating Temperature: 0 ~ 50

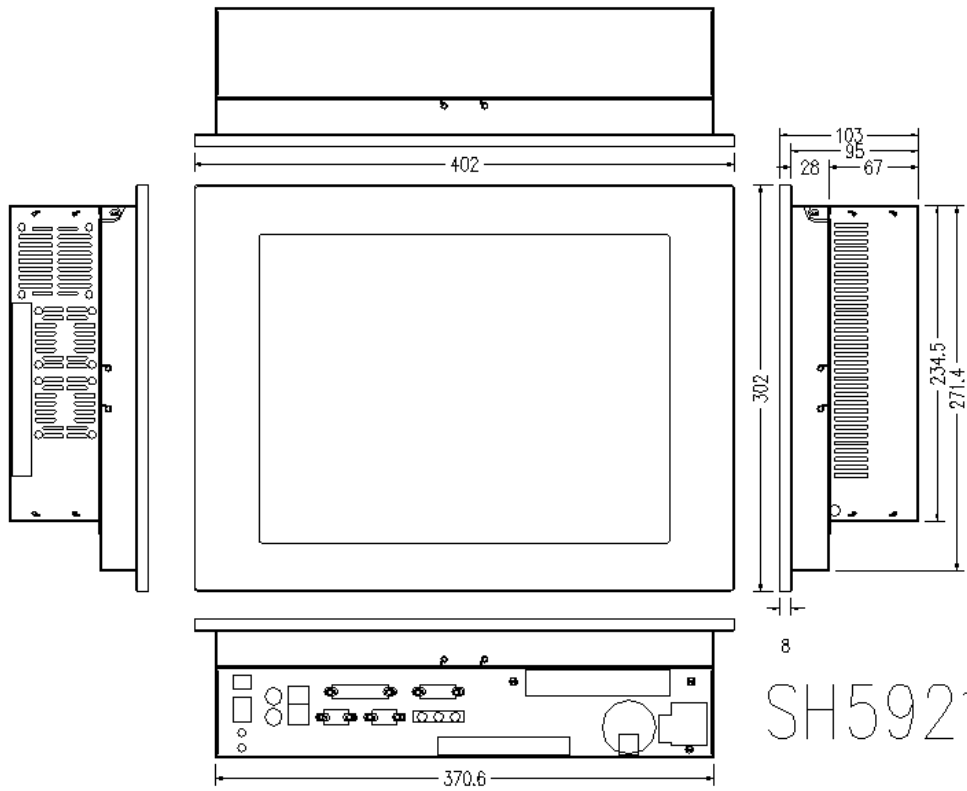
Relative Humidity: 10~90 %, non-condensing

Vibration: 5 to 17 Hz, 0.1"double-amplitude displacement,
17 to 640 Hz, 1.5 G peak to peak.

1.4 Dimensions

Front Panel: 402mm x 302mm x 8mm (WxHxD)

Cabinet: 370.6mm x 271.4mm x 95mm (WxHxD)



2 System Setup

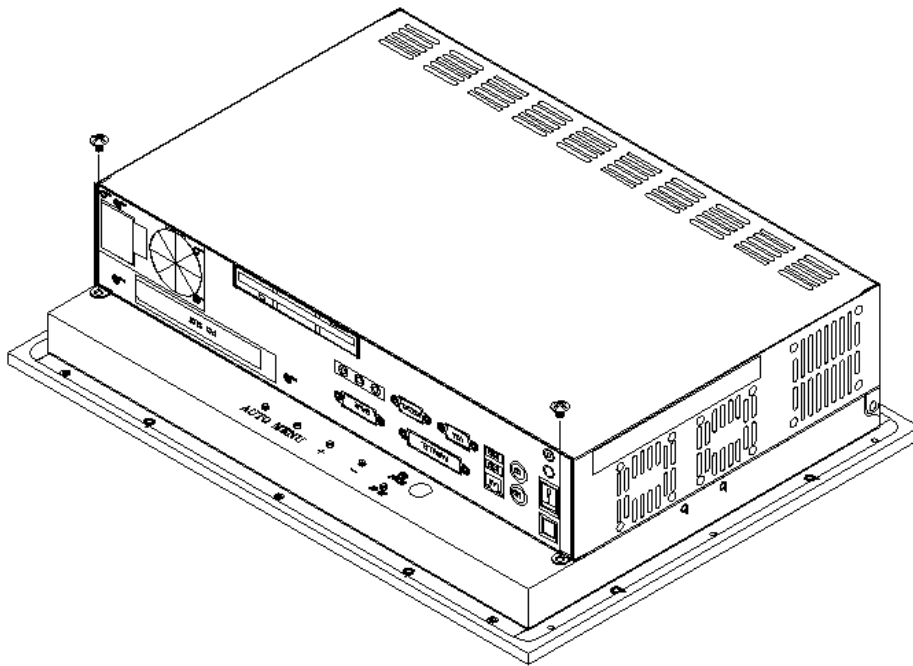
The SH-5921, 15" TFT LCD Panel PC, is provided complete kit for your operation.

The following sections of this chapter will help your installation and maintenance.

2.1 Assembly Diagram

The Reverse Side of SH-5921

The diagram shows below the reverse side of SH-5921. For maintenance, installation or upgrade, you need to remove the back cover by unfastening the 2 screws as shown in the diagram.

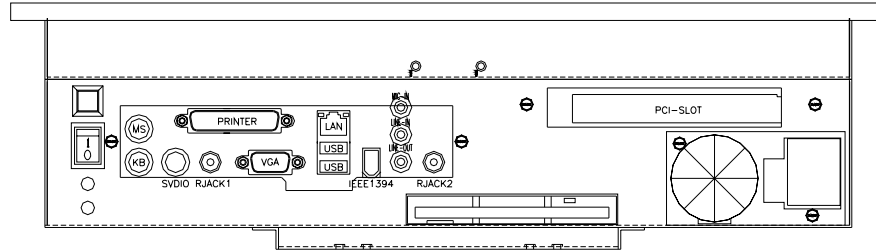


Warning: Before any installation/un-installation, please notice any effects of static electricity.

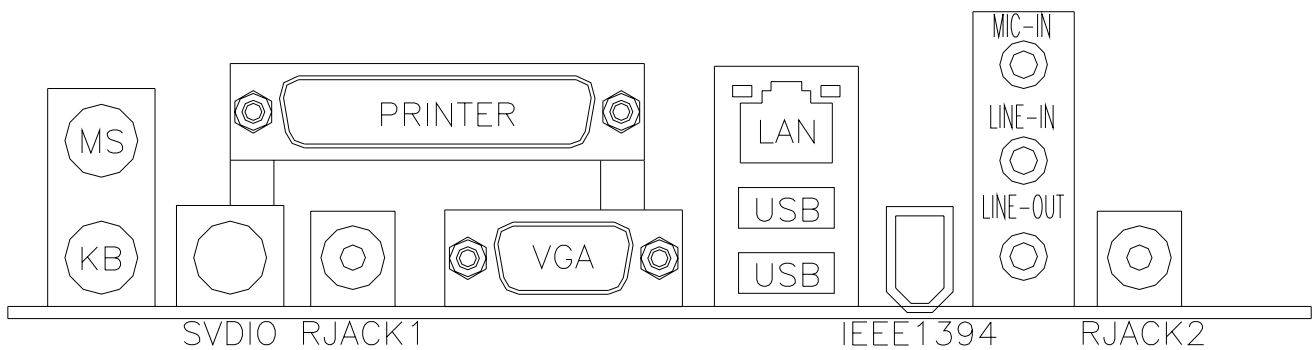
The Reverse Side of the Rear Cabinet

The following figure shows the reverse side of the rear cabinet.

One FDD and one power supply are accessible for operation on the driver frame.

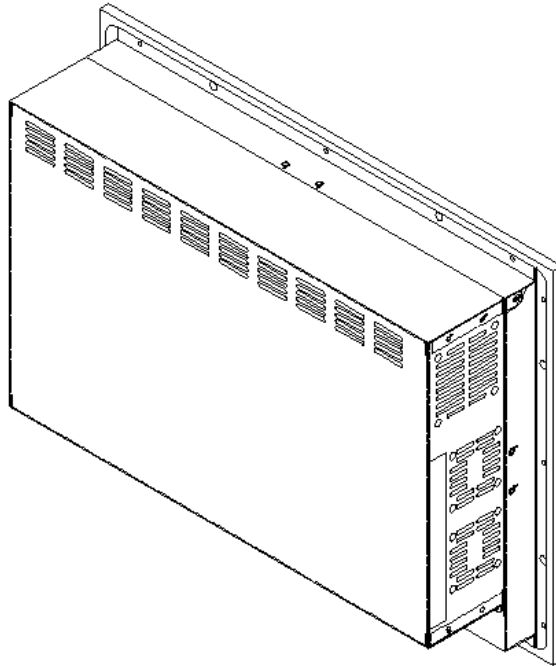


 MINI-ITX-478



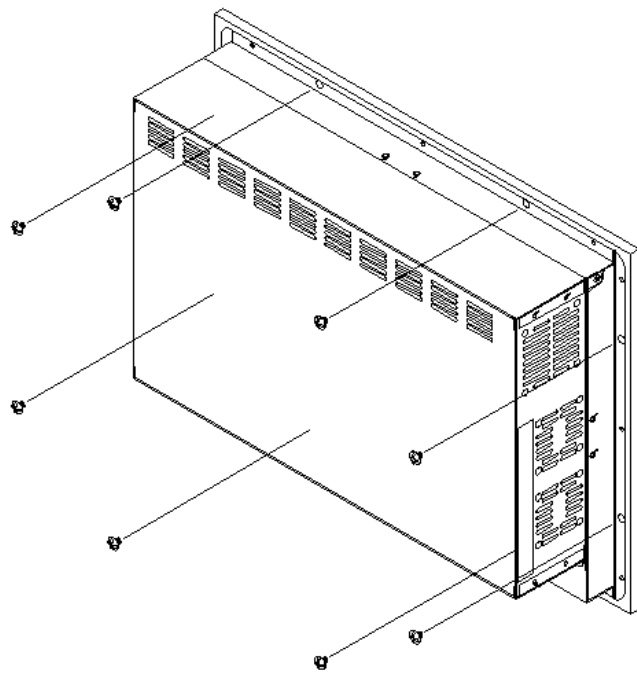
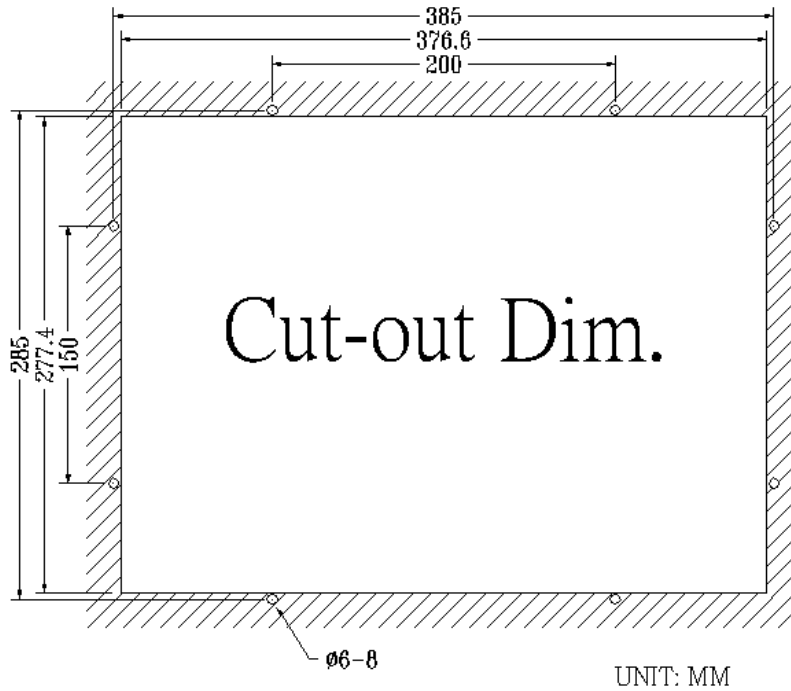
The Side View of SH-5921

On the side panel, you will find one CD-ROM and two fan. Please bear this in mind when mounting the unit. It is placed in to the cabinet and then fastened by four screws.



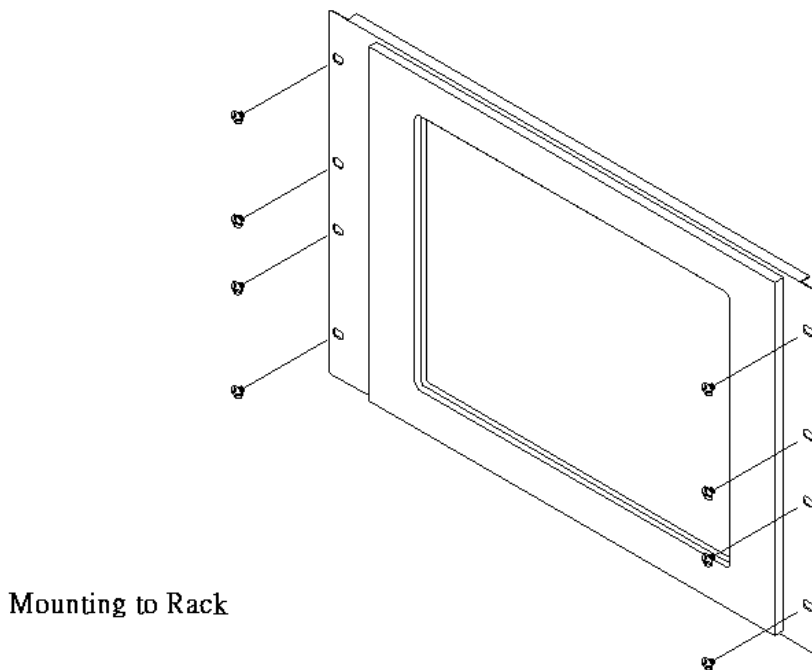
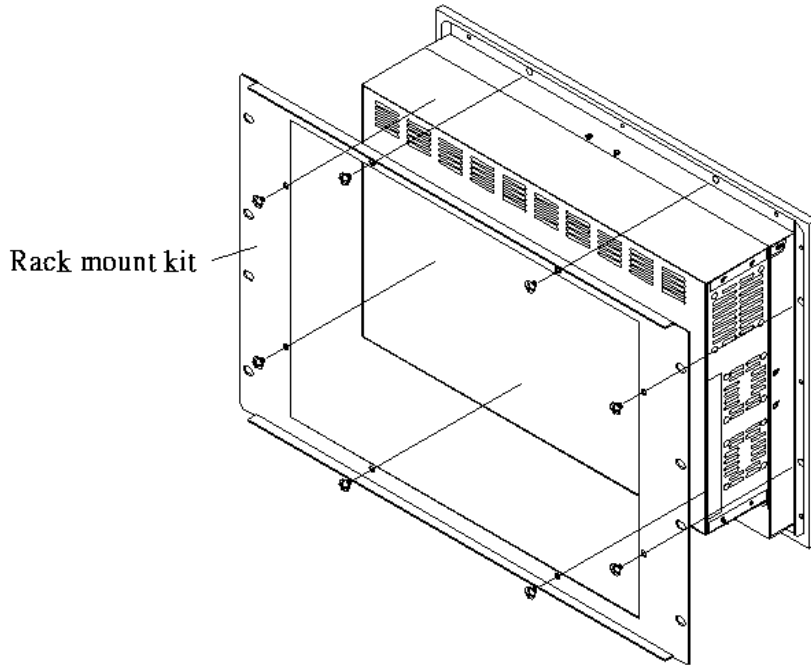
2.2 Panel Mounting

SH-5921 is designed for panel mounting. Before mounting the SH-5921 into panel, you have to check the cut out dimension first. Then mount it into panel by four supporters. Please refer to diagrams below.



2.3 Rack Mounting

Wingtop Panel PC serial products provide optional rack mount kit for industrial Rack. The following diagrams show you how to mount Panel PC serial products onto the 19" Rack.



Appendix A Power Supply

Industrial Power Supply: WIN-200PS Power Supply

High reliability triple output switching Power Supply (just 43mm in height)

Standard Power Supply: WIN-200PS

PROTECTION: Short Circuit, Over Current & Voltage Protection.

Operating temperature: 0°C to 50°C

Safety: - UL/ cUL/ CB/ TUV/ Nemko/ D/ S/ FI/

EMC: - FCC/ CE.

Power connector: ATX+P4

Input Voltage: 100~127/200~240VAC

Output rating:

Nominal	Regulation	MIN.	MAX.
+3.3V	+/-5%	0.5A	15A
+5V	+/-5%	1.0A	20A
+12V	+/-5%	0.5A	7A
-5V	+/-10%	0A	0.5A
-12V	+/-10%	0A	0.5A
+5VSB	+/-5%	0A	1.5A

Total Output of +3.3V and +5V may not exceed 100W.

Warning: Whenever you need to take off a part for either maintenance or upgrade purpose, you should power down and unplug the power cord first.