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備註：			

PPC-1210

12.1" TFT Panel PC Ver 1.0

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Chapter 1 Product Information

1.1 General Information

The PPC-1210, 12.1" LCD TFT Panel PC, integrated with modern high brightness flat-panel display. Inside the system, high integrated Wafer-5822 CPU board minimize the total size and still present the system with rich performance. Also it is specially designed to meet the applications for industrial environment.

CPU board

In Wafer-5822 CPU board. It adoptes NS GX-1 300 Mhz, full function, high integrated CPU

LCD Display

The LCD is equipped with a 12.1" TFT, High brightness LCD.

HDD

Inside the system it provides one 2.5" internal HDD bay.

Adapter

The external adapter provides 12VDC 1.5A and 5V 4A .

Option features

Touch panel

Resistive or Capacity touch screen.

PCMCIA Slot

PC-104 I/F module

Weight

Probably 2 Kg

1.2 Product Specifications

- **LCD Display:**

Display Model	
Display Type	12.1" TFT color
LCD model	M121-53DR
Resolution	800x600
Max. colors	262K(R/G/B 6 bit each)
Brightness	250 cd/m ²
LCD MTBF`	50,000 hrs
Backlight MTBF	25,000 hrs
Supply Consumption	7.65W

(For LCD detail specification please refer the LCD specification)

- **Wafer-5822 CPU Board:**

- **CPU:** NS 300 MMX 32-Bit x86 low power Processor.
- **RAM:** one 144-pin SODIMM sockets support up to 128MB SDRAM
- **Chipset:** GXLV/GX1+CS5530A
- **LCD/CRT Controller:** Built-in CS5530A share with system memory
- **SSD:** One DiskOnChip socket

(For more detail information please refer the User manual of Wafer-5822 SBC)

- **System I/O**

- **10/100Mbps Ethernet Controller:** Realtek RTL8139 IEEE 802.310/100 BASE-T standard Dual Auto-sensing interface to 10MBps or 100MBps networks with RJ45 connector.
- **VGA:** One VGA port.
- **Audio:** AC97 compliant CODEC, Line-in, Line-out and Mic-in
- **Series ports :** One RS-232 Ports.
- **Two USB ports:** Support dual USB ports for future expansion.
- **Keyboard ,Mouse connector**
- **Enhanced IDE Interface :**
 - One 44-pin Header for internal 2.5" HDD

- **Disk Drive Bay:** Support one 2.5" HDD
- **Power Adaptor:**+12VDC, 1.5A +5VDC,4A
- **Support Panel/Wall mounting features**
- **Power Consumption:** +12VDC 0.7A, +5VDC 2.2A
- **Shock:** 10G peak to peak
- **Vibration:** 5~17 Hz. 0.1" double amplitude displacement.
17~640 Hz, 1.5G acceleration peak to peak
- **Operating Temperature:** 0° ~ 50° C
- **Operating Humidity:** 5-95% non-condensing

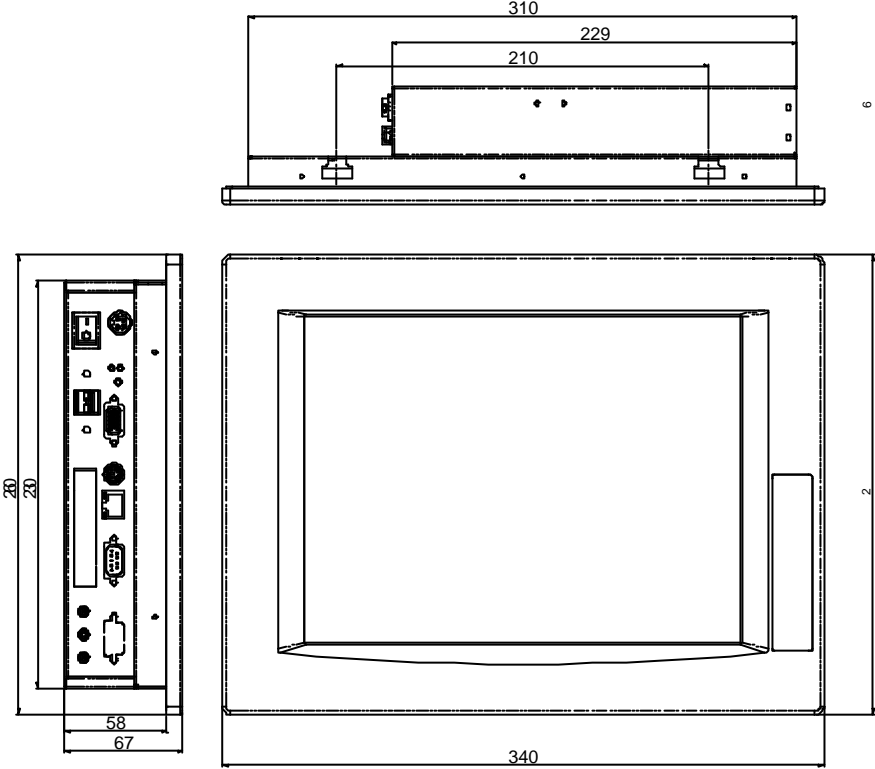
- **Dynapro Touch Screen (option)**
Type: Analog Resistive
Resolution: Continuous
Light transmission: Typical value 72%
Surface Hardness: 4H (Test condition: ASTM D3363-92A)
8-wire touch screen
Support driver: Supports DOS, Windows 3.1, 95, 98, NT.

- **Best solution for Panel mount, Arm mount, Rack mount. Best human/machine interface.**
- **Dimensions :** Front Panel: 340mm x 260mm x 9mm (WxHxD)
Cabinet: 310mm x 230mm x 58mm (WxHxD)

1.3 Mechanical Dimension

Front Panel: 340mm x 260mm x 9mm (WxHxD)

Cabinet: 310mm x 230mm x 58mm (WxHxD)



Unit:mm

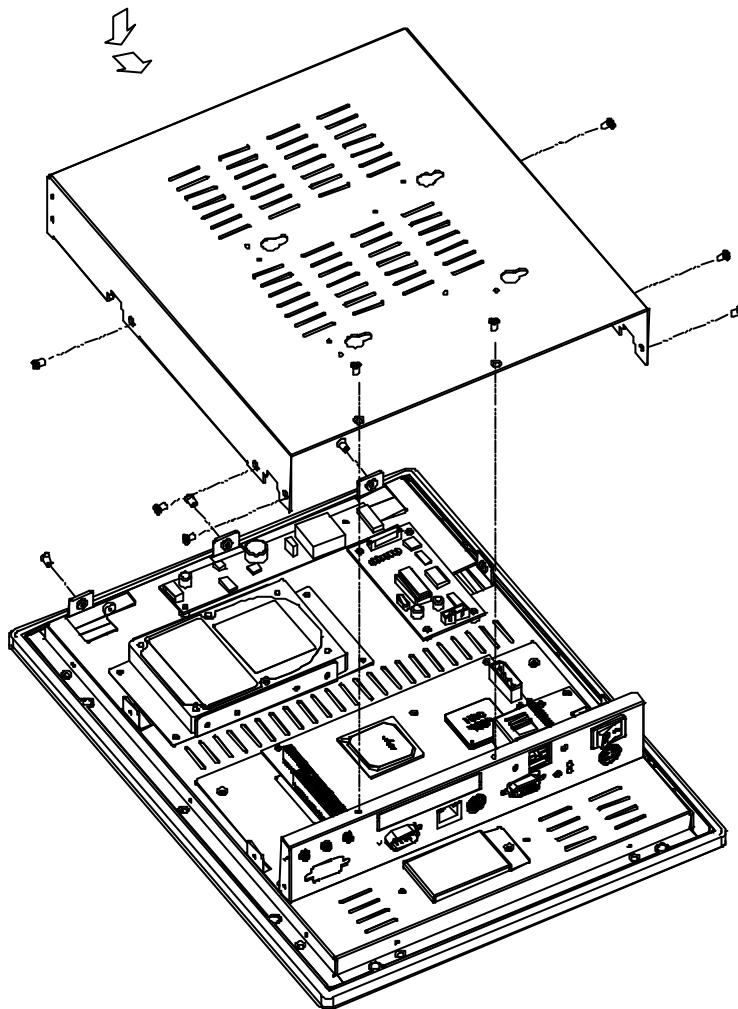
Chapter 2 System Setup

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

2.1 The Rear Side of PPC-1210

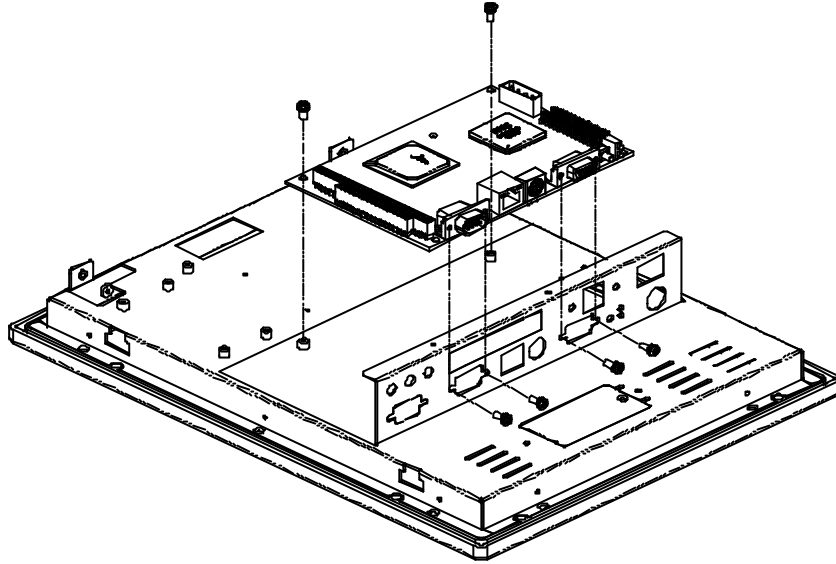
The below diagram shows the reverse side of PPC-1210. For maintenance, installation or upgrade, you have to remove the back cover first by unfastening 7 screws .

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



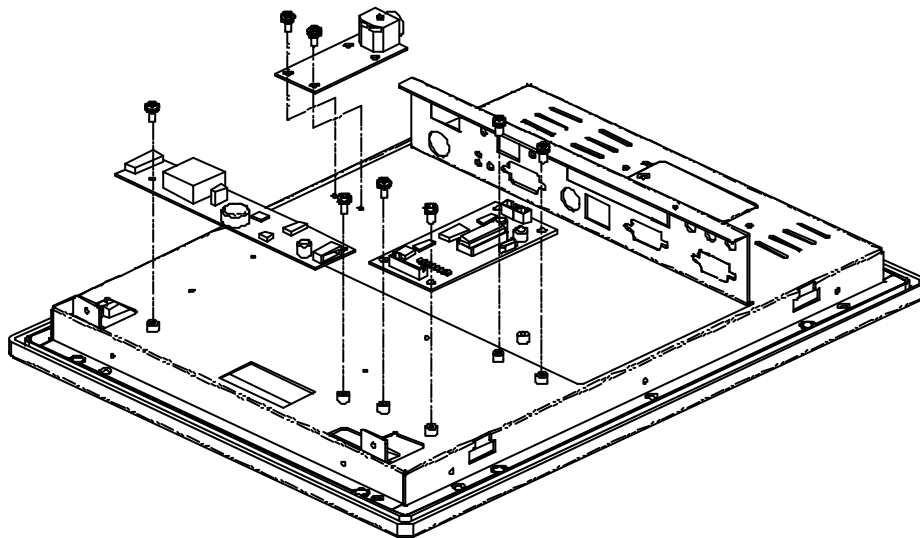
2.2 Wafer-5822 CPU Board Installation

To install the Wafer-5822 CPU Board, you have to place the board into the cabinet and then fasten it by four screws.

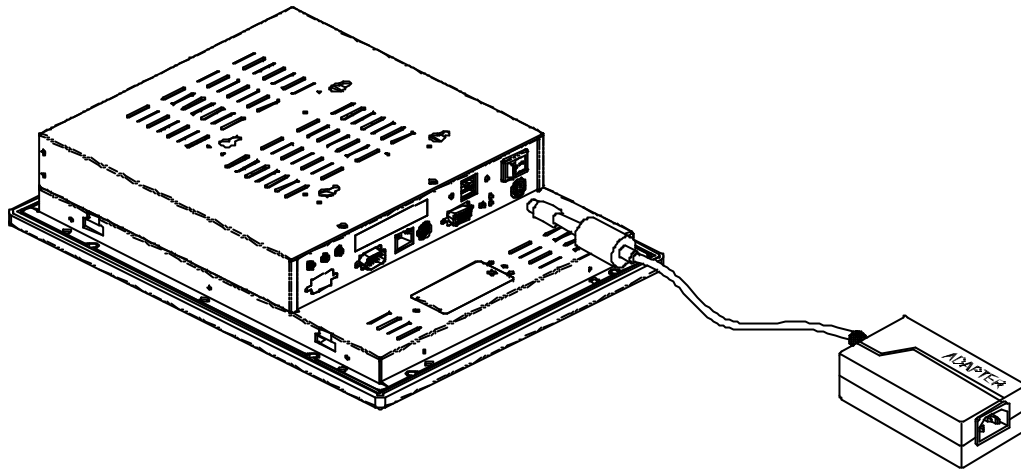


2.3 Board Installation

To install the power board (G31), inverter, control board, you have to place the board into the cabinet and then fasten it by four screws.

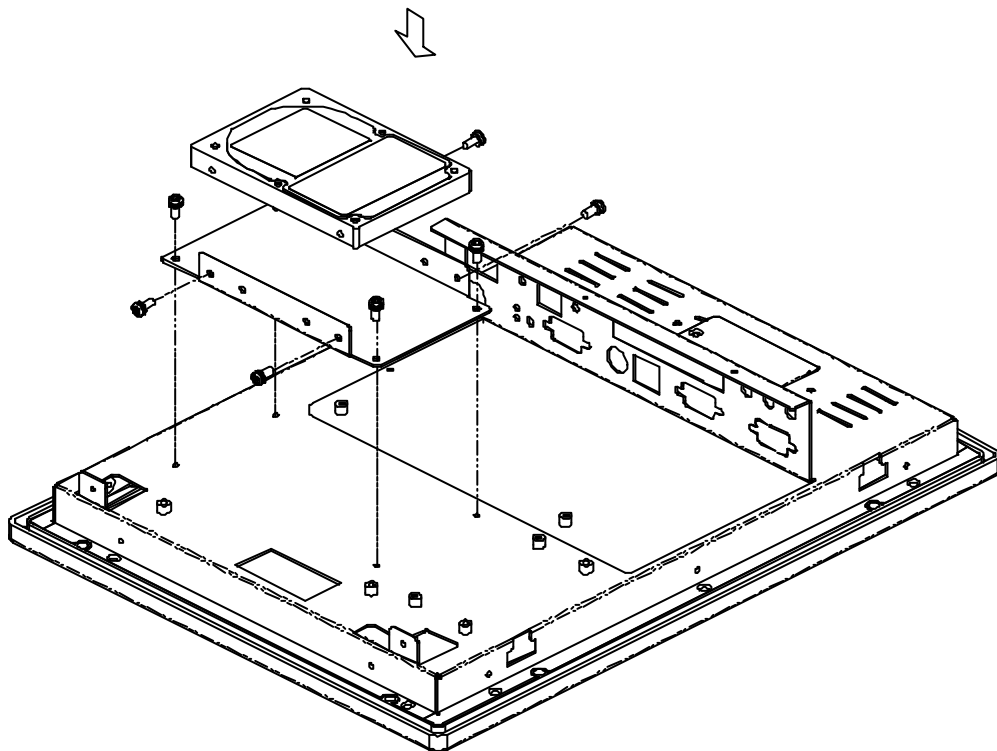


2.4 Power Adapter Installation



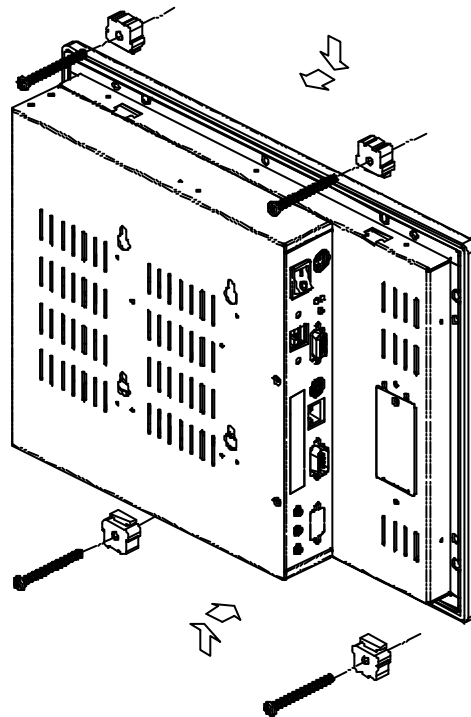
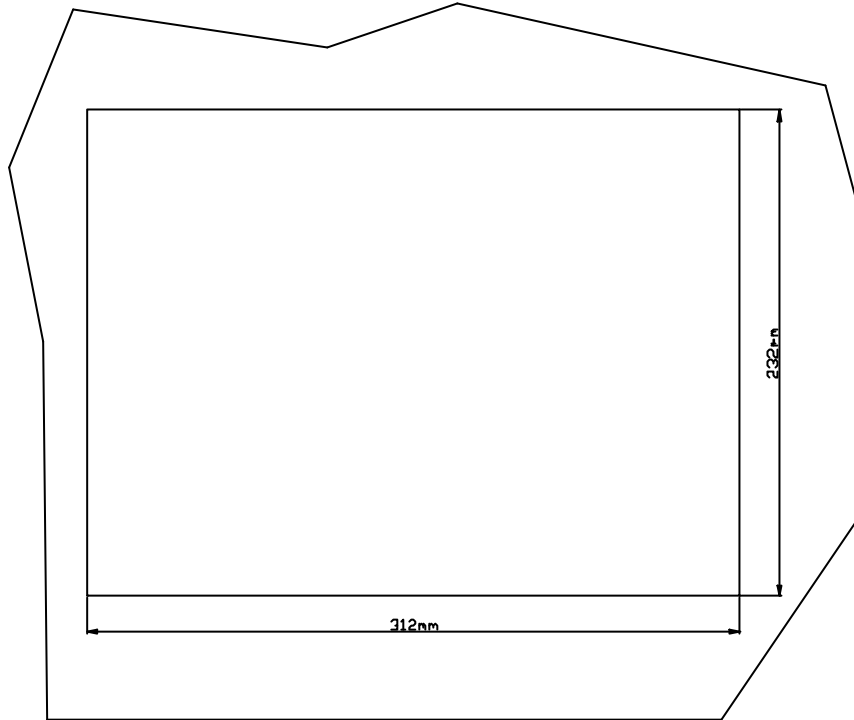
2.5 Drive Disk Installation

To install the HDD, you have to assemble the HDD to the HDD bracket first. Then, fasten the HDD bracket to the cabinet by 4 screws.



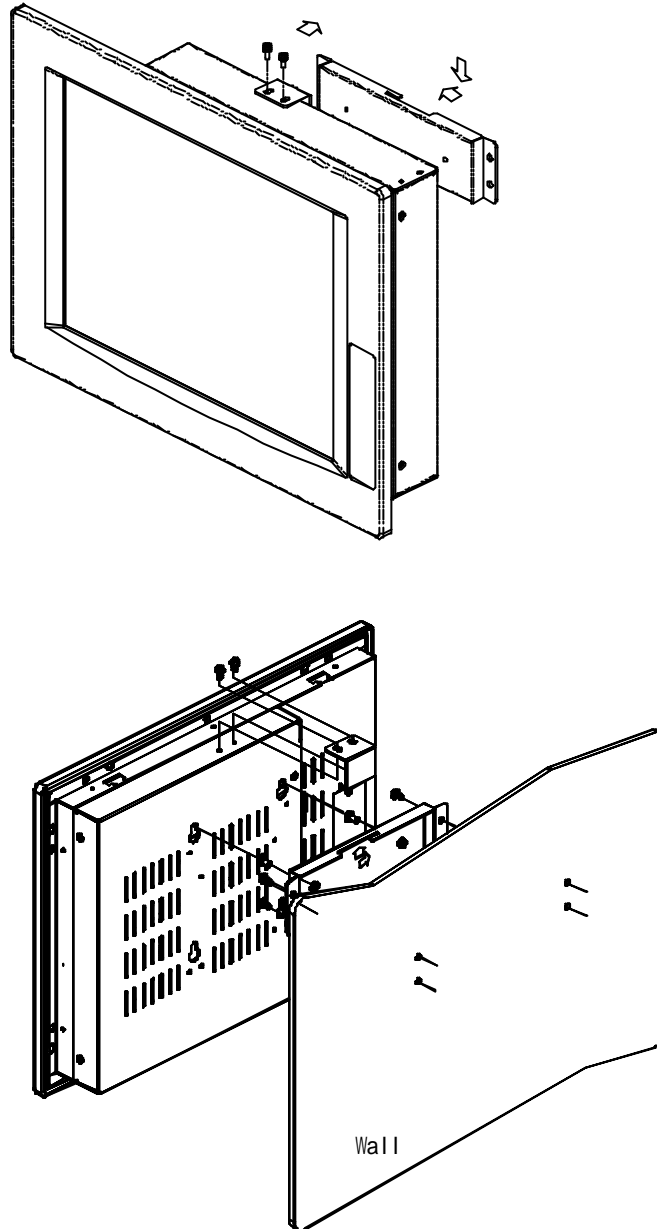
2.6 Panel Mounting

PPC-1210 is designed for panel mounting. Before mounting the PPC-1210 into panel, you have to check the cut out dimension first. Then mount it into panel by four supporters. Please refer to diagrams below.



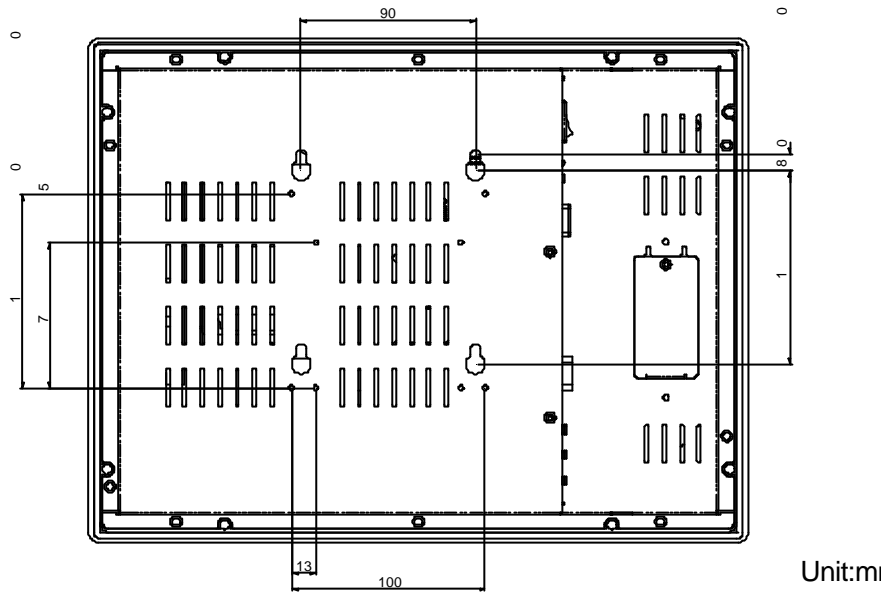
2.7 Wall Mounting

PPC-1210 is suitable for Wall mount.



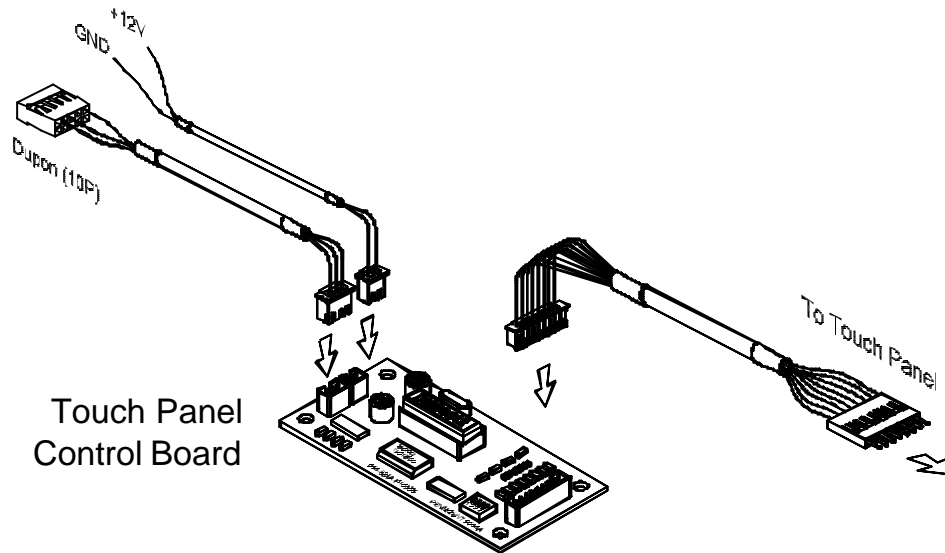
2.8 Arm Mounting

PPC-1210 is not only suitable for panel mounting but also for 75/100mm interface pads for arm mounting; and the specification conform to the proposed VESA standard.

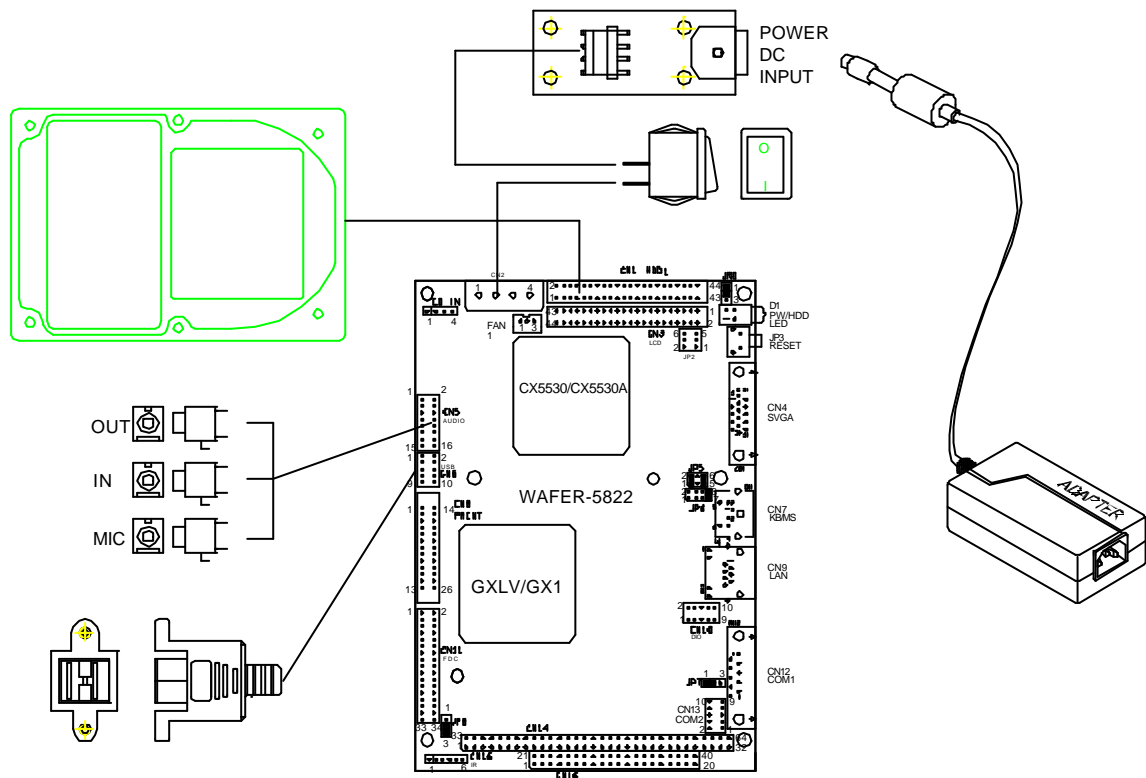


Appendix A Touch Panel Controller

The optional touch screen provides RS232 interface and the wire diagram of the controller is as the below figure shown.



Appendix B Wire diagram



Appendix C Accessory List

Item	Description	Part No	QTY.
1	WALL-MOUNT VIBRATION KIT	41020-002702	2
2	Annex wrap		
2-1	PANEL-MOUNT KIT	42011-000150	4
2-2	SCREW M3(Round with washer screw)	44003-030062	5
2-3	SCREW M3(Flat Screw)	44013-030061	5
2-4	SREW M4 (Sink with washer screw)	44033-040062	8
2-5	SCREW M3(Sink screw)	44033-030061	10
2-6	SCREW BOLT	42005-000603	4
2-7	SCREW M5X50(Round screw)	44003-050501	4
3	User Manual	51000-000294	1
4	ADAPTER POWER	63PSA45U201-000	1
5	POWER CORD	32000-000002	1



1



2-1



2-2



2-3



2-4



2-5



2-6



2-7



3



4



5