

**AOP-8080XT**

Intel® 600MHz/  
1.3GHz Processor  
Operator Panel PC  
With 8.4" TFT LCD

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## Packing List

Before you begin operating your PC, please make sure that the following materials are enclosed:

- 1 AOP-8080XT Panel PC
- 1 CompactFlash™ storage card (accessory for AOP-8080XT-P1 & P2)
- 1 Keyboard / Mouse Cable (PS/2 Y type)
- 1 Mounting bracket and screws
- 1 CD-ROM for manual (in PDF format)

If any of these items should be missing or damaged, please contact your distributor or sales representative immediately.

## Safety & Warranty

1. Read these safety instructions carefully.
2. Keep this user's manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.
4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a firm surface during installation. Dropping it or letting it fall could cause damage.
7. The openings on the enclosure are for air convection. Protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
10. All cautions and warnings on the equipment should be noted.
11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.
12. Never pour any liquid into an opening. This could cause fire or electrical shock.
13. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
14. If any 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.
15. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20°C (-4°F) OR ABOVE 60°C (140°F). IT MAY DAMAGE THE EQUIPMENT.

## FCC Safety

### **Warning!**



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

### **Caution:**

*There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.*

## Below Table for China RoHS Requirements

产品中有毒有害物质或元素名称及含量

## AAEON Panel PC/ Workstation

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板 及其电子组件	×	○	○	○	○	○
外部信号 连接器及线材	×	○	○	○	○	○
外壳	×	○	○	○	○	○
中央处理器 与内存	×	○	○	○	○	○
硬盘	×	○	○	○	○	○
液晶模块	×	○	○	○	○	○
光驱	×	○	○	○	○	○
触控模块	×	○	○	○	○	○
电源	×	○	○	○	○	○

**O:** 表示该有毒有害物质在该部件所有均质材料中的含量均在  
SJ/T 11363-2006 标准规定的限量要求以下。

**X:** 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出  
SJ/T 11363-2006 标准规定的限量要求。

备注:

- 一、此产品所标示之环保使用期限，系指在一般正常使用状况下。
- 二、上述部件物质中央处理器、内存、硬盘、光驱、触控模块为选购品。

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Chapter

1

**General  
Information**

## **1.1 Introduction**

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The AOP-8080XT operator panel is an Intel 600MHz/ 1.3GHz processor computer that is designed to serve as a human machine interface (HMI). It is a PC-based system with 8.4" color TFT LCD display, on-board Ethernet controller, multi-COM port interfaces and an audio controller. With a built-in CompactFlash socket, the AOP-8080XT is as compact and user friendly as a multi-function computer. In addition, its "fit anywhere" design makes it very flexible and able to be used in many different kinds of installations. It can be wall mounted, panel mounted or DIN Rail mounted.

For system integrators, this simple, complete, compact and highly integrated system let you easily build an operator panel into your applications. Common industrial applications include factory automation systems, precision machinery, and production process control. It is also suitable for many non-industrial applications, including vending machine, and car park automation. Our operator panel is a reliable, cost-effective solution to your application's processing requirements.

## 1.2 Specification

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### System

- CPU Onboard Intel 600MHz/ 1.3GHz Processor
- Memory Onboard 256/512MB, up to 1G DDR I SDRAM
- LCD / CRT Controller Intel 852GM
- Ethernet Intel 82562 10/100Base-TX RJ-45 connector x 1
- I/O Port 2 RS-232 (D-SUB 9 connector),  
1 PS/2 mouse and keyboard port,  
3 USB 2.0 ports,  
Audio Line out
- Storage Disk Drive Type II CompactFlash™ slot
- OS Support Windows XP Embedded

### Mechanical

- Construction Plastic Bezel, Metal backcover
- Front Panel Color Black
- Mounting Panel Mount, VESA 75mm holes,  
DIN Rail (Optional)
- Dimension 9.65" (W) x 7.2" (H) x 2.37" (D)  
(245mm x 183mm x 60.2mm)
- Gross Weight 5.5 lb (2.5Kg)

## Environmental

- Operating Temperature 32°F~104°F (0°C~40°C);  
32°F~122°F(0°C~50°C)--1.3GHz CPU  
with Fan
- Storage Temperature -4°F~140°F (-20°C~60°C)
- Operating Humidity 10 to 90%@35°C, non-condensing
- Vibration Random Operation 1G, 5-500Hz
- Shock 15G peak acceleration (11 msec.  
duration)
- EMC CE/FCC Class A
- Power Supply Input: DC 5V

## LCD

- Display Type 8.4" Color TFT LCD
- Max. Resolution 800x 600
- Max. Colors 262K
- Dot Size 0.213mm x 0.213mm
- Luminance 450 nits
- Viewing Angle 120° (H) x 100° (V)

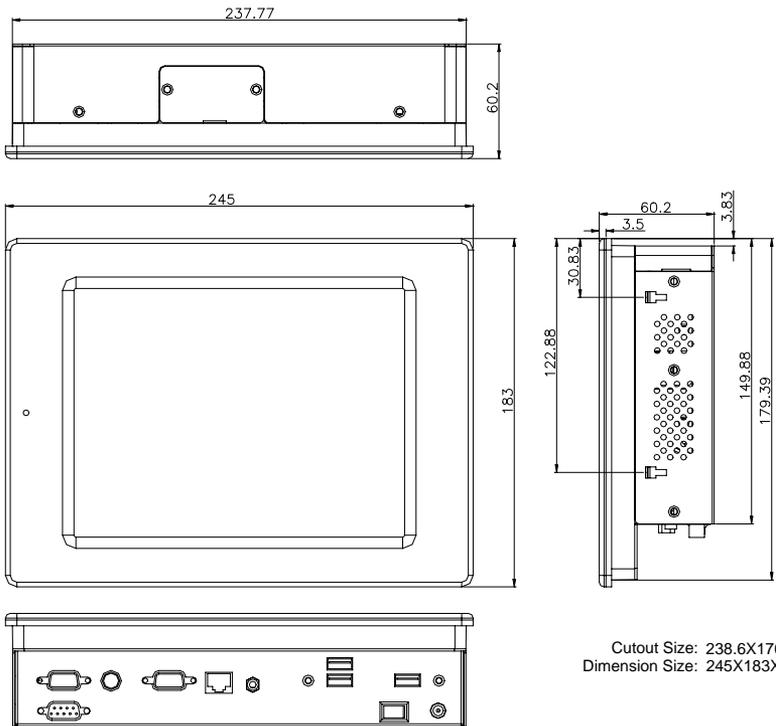
## Touch Screen

- Type 4-wire, analog resistive
- Light Transmission 79%
- Lifetime 10 million activations
- OS Support Windows XP Embedded

**Note:** All AAEON's LCD products are manufactured with High precision technology. However, in all LCD panels there maybe a small number of

defective pixels that do not change color. This is a normal occurrence for all LCD displays from all manufacturers and should not be noticeable or objectionable under normal operation. AAEON qualify the LCD panel following industry standard: total 7 dead pixels on a screen or if there are 3 within 1 inch square area of each other on the display.

### 1.3 Dimension



Unit: mm

**Chapter**

**2**

**Hardware  
Installation**

## 2.1 Panelmount Installation

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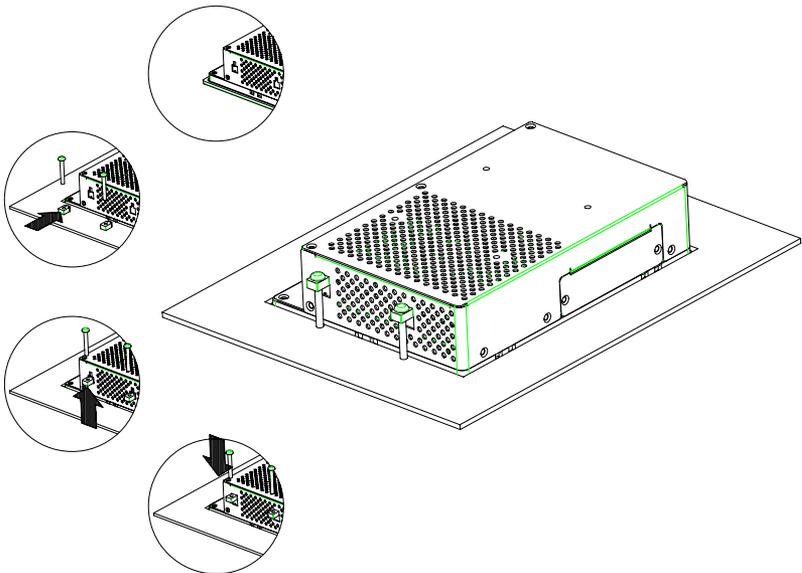
The display panel can be mounted into the wall. You will need the screws along with the mounting brackets, which be packed in the accessory box. Follow the steps below:

Step 1: Place the operator panel into the wall.

Step 2: Place the mounting brackets and bore the screw on it.

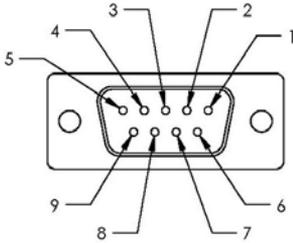
Step 3: Screw mounting kits to fix the operator panel.

Step 4: When the mounting set has been tightened, repeat the Steps above and tighten all mounting sets around the monitor until the monitor has been firmly mounted to the wall.



## 2.2 COM1/2 Connector

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Pin	Signal	Pin	Signal
1	DCD1	2	RXD1
3	TXD1	4	DTR1
5	GND	6	DSR1
7	RTS1	8	CTS1
9	RI1		

Chapter

3

# Windows XP Embedded Installation

### 3.1 Introduction

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The AOP-8080XT comes with a CD-ROM that contains Windows XP Embedded image. Please follow up the installation process at “AAEON Windows XP Embedded Installation Guide” file to install Windows XP Embedded image in your CF Disk. After Touchscreen calibration, you can start to use AOP-8080XT.

Request for different features of Windows XP Embedded:

Please refer to “AAEON Windows XP Embedded Installation Guide” and “AAEON Windows XP Embedded Integration Service Policy,” and fill out “AAEON Windows XP Embedded Request Form” in your CD-ROM, and contact our sales representative for more details.

**Chapter**

**4**

**Driver  
Installation**

There are several installation ways depending on the driver package under different Operating System application. The Autorun program will run automatically. However, if the Autorun program cannot be run smoothly, please follow the sequence below to install the drivers:

- Step 1– Intel INF Update for Windows 9x-2003 Driver Installation
- Step 2– Intel Extreme Graphics 2 Driver Installation
- Step 3– Intel LAN Driver Installation
- Step 4– Realtek AC97 codec Driver Installation
- Step 5– Touch Screen Driver Installation

USB 2.0 Drivers are available for download using Windows Update for both Windows XP and Windows 2000. For additional information regarding USB 2.0 support in Windows XP and Windows 2000, please visit [www.microsoft.com/hwdev/usb/](http://www.microsoft.com/hwdev/usb/).

For installation procedures of each driver, you may see the details in the following.

## 4.1 Installation

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Insert the AOP-8080XT CD-ROM into the CD-ROM drive and install the drivers from Step 1 to Step 5 in order.

Step 1 – Install Intel INF Update for Windows 9x-2003 Driver

1. Click on the **Step 1- Intel INF Update for Windows 9x-2003** folder
2. Double click on **Setup.exe**
3. Follow the instructions that the window shows
4. The system will help you install the driver automatically

Step 2 – Install Intel Extreme Graphics 2 Driver

1. Click on the **Step 2 –Intel Extreme Graphics 2 Driver** folder
2. Select the OS your system is
3. Double click on **Setup.exe**
4. Follow the instructions that the window shows
5. The system will help you install the driver automatically

Step 3 – Install Intel LAN Driver

1. Click on the **Step 3 –Intel LAN Driver** folder
2. Select the OS your system is
3. Double click on **.exe** file
4. Follow the instructions that the window shows

5. The system will help you install the driver automatically

#### Step 4 – Install Realtek AC97 codec Driver

1. Click on the **Step 4 –Realtek AC97 codec Driver** folder
2. Double click on **wdm\_a361.exe**
3. Follow the instructions that the window shows
4. The system will help you install the driver automatically

#### Step 5 – Install Touch Screen Driver

1. Click on the **Step 5 –Touch Screen Driver** folder
2. Select the OS your system is
3. Double click on **Setup.exe**
4. Follow the instructions that the window shows
5. The system will help you install the driver automatically