

## **22" Panel PC ordering information:**

- 1. Model 1: Panel PC-2200-Atom N270 ( Intel Atom N270 , 1.6Ghz/512K cache fanless CPU )**
- 2. Model 2: Panel PC-2200-C2D 1.6G ( Intel Mobile core 2 Duo 1.6G/2M cache CPU )**
- 3. Model 3: Panel PC-2200-C2D 2.53G ( Intel Mobile core 2 Duo 2.53G/6M cache CPU )**

# **Panel PC-2200-Atom N270**

## **22" Industrial Fanless Panel PC Specification**

### **Features :**

- **22"W Industrial grade TFT WXGA LCD Solution**
- **Embedded Intel Atom N270 ( 1.6Ghz /512K cache ) low power Fanless processors**
- **DDR 2 DIMM x 1, Max. 2.0 GB**
- **Onboard Realtek 8111C 10/100/1000 Giga Lan Ethernet x 2 ( 2<sup>nd</sup> Lan by request )**
- **Integrated 945GSE built in Intel Graphic media accelerator 950 graphic core, Supports CRT and TFT LCD display**
- **8 x USB 2.0 ports**
- **4 x COM ports ( COM 2 can be configurable to RS422/485 )**
- **1 x printer port**
- **Watchdog timer**
- **Digital I/O ( 4 in/4 out )**
- **One PCI or PCI-E ( x1 ) expansion ( by request )**
- **Inverter board built in for TFT LCD panel**
- **DC12V single power input**
- **Aluminum front panel , metal housing & stand meet industrial grade**
- **Tilting angle 10°~90° Countertop Stand ( optional )**
- **Size: 539 mm ( W ) x 362 mm ( L ) x 81 mm ( H ) ( without Stand install )**
- **RoHS Compliance**
- **Wireless Lan 802.11 b/g/n ( optional )**
- **Speaker ( Dual channels , 5 watts per channel )**
- **Touch screen :**
- **I/R touch**



## System Specification :

**Form Factor**

**Mini itx Form factor**

**Processor**

**Intel Atom N270 1.6Ghz/512K cache FSB/ 533 Mhz Processor**

**System Chipset**

**Intel N270 + 945GSE + ICH7M**

**System Memory**

**DDR2 DIMM module x 1 , max. 2.0GB**

**BIOS**

**Award 8Mbit**

**Ethernet**

**Realtek 8111C 10/100/1000 Giga Lan Ethernet x 2 ( 2<sup>nd</sup> Lan optional )**

**Audio**

**Realtek ALC 655 Audio codec , 5.1 channel**

**Serial**

**4 x RS-232 ( COM2 can be configurable to RS-422/485 )**

**USB**

**8 x USB 2.0**

**KB / Mouse Connector**

**2 x PS/2**

**Printer port**

**Parallel port for printer**

**Stand ( optional )**

**Tilting angle 10 deg. To 90 deg. Countertop Stand**

**HDD**

**2.5 inch 40GB/80/160GB/320GB up or Compact flash 2.0GB/4.0GB/8.0GB up**

**OS Optional**

**Windows XP Professional / Embedded / WePOS/POS2009 Ready**

**Power Adapter**

**100V ~ 240V AC IN**

**Dimension**

**539 mm ( W ) x 362 mm ( L ) x 81 mm ( H ) ( without Stand install )**

**Temperature**

**Operating : 0 °C to 60 °C**

**Humidity**

**10% to 90% non condensing**

## LCD Panel Specification :

**Viewable Size Image**

**22"**

**Active Display Area( mm )**

**473.76 (H) x 296.1 (V) mm**

**Pixel Pitch ( mm )**

**0.282 (H) x 0.282 (V) mm**

**Pixels HxV**

**1680 (H) x 1050 (V) pixels**

**Contrast Ratio**

**1000:1 (typical.)**

**Display Color**

**16.7M colors ( 6 bits + Hi-FRC )**

**Brightness (cd/m2)**

**300 (typical.)**

**Viewing Angle**

**Horizontal: 85°/85° ( L/R ) , Vertical 80°/80° ( U/D )**

**Recommend Resolution**

**1680x1050@60Hz, 75Hz**

**Power source**

**AC 100~240 V, Universal,±10%**

**Power Consumption**

**23W typical, normal operation**

**Power Management**

**VESA DPMS Compliant**

**Plug Play**

**VESA DDC 1/2B**

**Lamp life**

**50,000 hours**

## **Panel PC-2200-C2D 1.6G**

### **22" Industrial Panel PC Specification**

#### **Features :**

- **22"W Industrial grade TFT WXGA LCD Solution**
- **Intel Mobile Core 2 duo 1.6Ghz processors with fan installed**
- **DDR 2 DIMM x 2, Max. 4.0 GB**

- **Onboard Intel 82562 10/100 Mbits Lan Ethernet**  
**Or Marvell 88E8053 10/100/1000 giga Lan Ethernet ( By request )**
- **Integrated 945GM built in VGA graphic,**  
**Supports CRT and TFT LCD display**
- **6 x USB 2.0 ports**
- **2 x COM ports ( COM 2 can be configurable to RS422/485 )**
- **1 x printer port**
- **Watchdog timer**
- **Digital I/O ( 4 in/4 out )**
- **One PCI or PCI-E ( x1 )or PCI-E ( x16 ) expansion ( by request )**
- **Inverter board built in for TFT LCD panel**
- **DC12V single power input**
- **Aluminum front panel , metal housing & stand meet industrial grade**
- **Tilting angle 10°~90° Countertop Stand ( optional )**
- **Size: 539 mm ( W ) x 362 mm ( L ) x 81 mm ( H ) ( without Stand install )**
- **RoHS Compliance**
- **Wireless Lan 802.11 b/g/n ( optional )**
- **Speaker ( Dual channels , 5 watts per channel )**
- **Touch screen :**
- **I/R touch**

## System Specification :

**Form Factor**

**Mini itx Form factor**

**Processor**

**Intel Mobile Core 2 duo 1.6Ghz/2M cache FSB/ 533 Mhz Processor**

**System Chipset**

**Intel 945GM + ICH7M**

**System Memory**

**DDR2 DIMM module x 2 , max. 4.0GB**

**BIOS**

**Award 8Mbit**

**Ethernet**

**Intel 8256210/100 Mbits Lan or Marvell 88E8053 10/100/1000 Giga Lan Ethernet**

**Audio**

**ICH7M integrated audio with AC97 Codec**

**Serial** 2 x RS-232 ( COM2 can be configurable to RS-422/485 )

**USB** 6 x USB 2.0

**KB / Mouse Connector** 2 x PS/2

**Printer port** Parallel port for printer

**Stand ( optional )** Tilting angle 10 deg. To 90 deg. Countertop Stand

**HDD** 2.5 inch 40GB/80/160GB/320GB up or Compact flash 2.0GB/4.0GB/8.0GB up

**OS Optional** Windows XP Professional / Embedded / WePOS/POS2009 Ready

**Power Adapter** 100V ~ 240V AC IN

**Dimension** 539 mm ( W ) x 362 mm ( L ) x 81 mm ( H ) ( without Stand install )

**Temperature** Operating : 0 °C to 60 °C

**Humidity** 10% to 90% non condensing

## LCD Panel Specification :

**Viewable Size Image** 22"

**Active Display Area( mm )** 473.76 (H) x 296.1 (V) mm

**Pixel Pitch ( mm )** 0.282 (H) x 0.282 (V) mm

**Pixels HxV** 1680 (H) x 1050 (V) pixels

**Contrast Ratio** 1000:1 (typical.)

**Display Color** 16.7M colors ( 6 bits + Hi-FRC )

**Brightness (cd/m2)** 300 (typical.)

**Viewing Angle**

**Horizontal: 85°/85° ( L/R ) , Vertical 80°/80° ( U/D )**

**Recommend Resolution**

**1680x1050@60Hz, 75Hz**

**Power source**

**AC 100~240 V, Universal,±10%**

**Power Consumption**

**23W typical, normal operation**

**Power Management**

**VESA DPMS Compliant**

**Plug Play**

**VESA DDC 1/2B**

**Lamp life**

**50,000 hours**

## **Panel PC-2200-C2D 2.53G 22" Industrial Panel PC Specification**

### **Features :**

- **22"W Industrial grade TFT WXGA LCD Solution**
- **Intel Mobile Core 2 duo 2.53Ghz processors with fan installed**
- **DDR 2 SO-DIMM x 2, Max. 8.0 GB**
- **Onboard Intel 82567LM Gigabit Lan and 82574L PCI-E Gigabit Lan ( dual Gigabit Lan )**
- **Integrated GM45 built in VGA graphic, Supports CRT and TFT LCD display**
- **8 x USB 2.0 ports**
- **4 x COM ports ( COM 2 can be configurable to RS422/485 )**
- **1 x printer port**
- **Watchdog timer**
- **Digital I/O ( 4 in/4 out )**
- **One PCI or PCI-E ( x1 )or PCI-E ( x16 ) expansion ( by request )**
- **Inverter board built in for TFT LCD panel**
- **DC12V single power input**

- Aluminum front panel , metal housing & stand meet industrial grade
- Tilting angle 10°~90° Countertop Stand ( optional )
- Size: 539 mm ( W ) x 362 mm ( L ) x 81 mm ( H ) ( without Stand install )
- RoHS Compliance
- Wireless Lan 802.11 b/g/n ( optional )
- Speaker ( Dual channels , 5 watts per channel )
- Touch screen :
- I/R touch

## System Specification :

**Form Factor**

**Mini itx Form factor**

**Processor**

**Intel Mobile Core 2 duo 2.53Ghz/6M cache FSB/ 1066 Mhz Processor**

**System Chipset**

**Intel GM45 + ICH9M**

**System Memory**

**DDR2 SO-DIMM module x 2 , max. 8.0GB**

**BIOS**

**Award 8Mbit**

**Ethernet**

**Intel 82567LM Gigabit Lan and 82574L PCI-E Gigabit Lan ( dual Gigabit Lan )**

**Audio**

**ICH9M integrated audio with Realtek ALC 888 HD audio Codec**

**Serial**

**4 x RS-232 ( COM2 can be configurable to RS-422/485 )**

**USB**

**8 x USB 2.0**

**KB / Mouse Connector**

**2 x PS/2**

**Printer port**

**Parallel port for printer**

**Stand ( optional )**

**Tilting angle 10 deg. To 90 deg. Countertop Stand**

**HDD**

**2.5 inch 40GB/80/160GB/320GB up or Compact flash 2.0GB/4.0GB/8.0GB up**

**OS Optional**

**Windows XP Professional / Embedded / WePOS/POS2009 Ready**

**Power Adapter**

**100V ~ 240V AC IN**

**Dimension**

**539 mm ( W ) x 362 mm ( L ) x 81 mm ( H ) ( without Stand install )**

**Temperature**

**Operating : 0 °C to 60 °C**

**Humidity**

**10% to 90% non condensing**

## **LCD Panel Specification :**

**Viewable Size Image**

**22"**

**Active Display Area( mm )**

**473.76 (H) x 296.1 (V) mm**

**Pixel Pitch ( mm )**

**0.282 (H) x 0.282 (V) mm**

**Pixels HxV**

**1680 (H) x 1050 (V) pixels**

**Contrast Ratio**

**1000:1 (typical.)**

**Display Color**

**16.7M colors ( 6 bits + Hi-FRC )**

**Brightness (cd/m2)**

**300 (typical.)**

**Viewing Angle**

**Horizontal: 85°/85° ( L/R ) , Vertical 80°/80° ( U/D )**

**Recommend Resolution**

**1680x1050@60Hz, 75Hz**

**Power source**

**AC 100~240 V, Universal,±10%**

**Power Consumption**

**23W typical, normal operation**

**Power Management**

**VESA DPMS Compliant**

**Plug Play**

**VESA DDC 1/2B**

**Lamp life**

**50,000 hours**

