# Portwell

*Together in Electric Dream!*

# POS
## Enrich Your Deals

# Point of Sale Syste

**hotels, stadiums and casinos, as well as almost**

**POS systems is not only operated by salesman, information about the shop, products, etc. from**

**Moreover, through the multimedia displayed by**

**In Fast Food** people can get today's special to speed up ordering. It can also show new toy information to attract children for making good selling.

**+**

**+**

**More Possibility**

**In Coffee Shop**, the traditional board can be replaced by E-Menu (HDMI) showing the product names and photos at the same time.
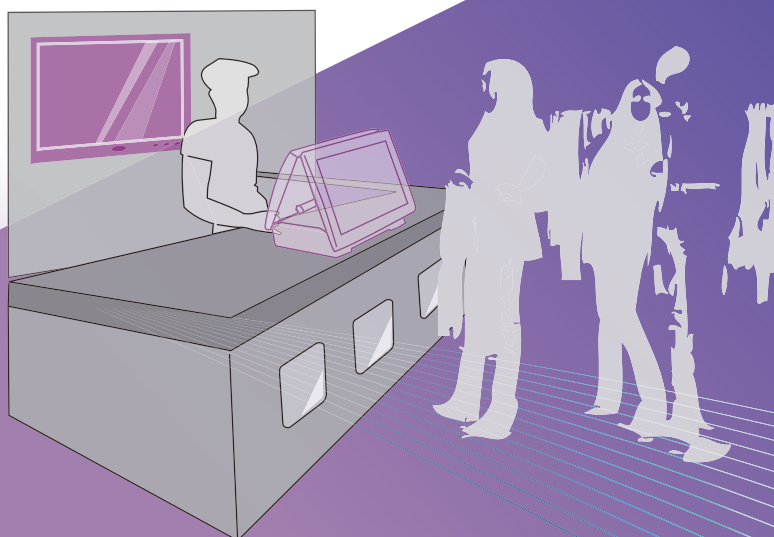
**ms** are used in supermarkets, restaurants, any type of retail establishment.

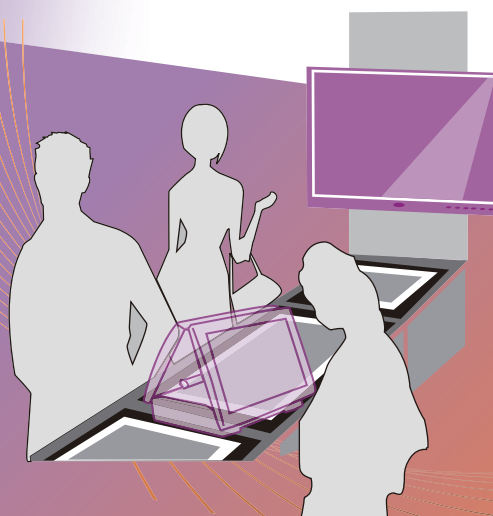but also can used by customers. They can get the other screen.

HDMI, the POS system can do the more service.

**=**

**HDMI**

with Triple Display

**In Retail Store**, the traditional posters will be replaced by electronic catalog. When people line up waiting, they can see the photos, discounting information and may get one more clothe for that.

**In Boutique**, customers can watch the fashion show, displaying on the wall, to get more inspiration and buy more new dress

# AIO POS
## MARS-5443

**VFD**

**0~90°**

**0~90° Title Angle**

**Touch Panel**

**Stylish Front I/O**

**Built in MSR**

**Hidden Rear I/O**

## Specification

### System

| | |
|---|---|
| Processor | Intel® Atom™ 330 Processor (1.6GHz) |
| FSB | 533MHz |
| Chipset | Intel® 945GC GMCH and ICH7R |
| System Memory | 1 x DDR2 Long-DIMM up to 2GB |
| Graphic Memory | Intel® 945GSE GMA950 Engine |
| Storage | 1 x 160GB 2.5″ SATA 300 |

### Display

| | |
|---|---|
| LCD Size | 15″ TFT LCD with LVDS interface |
| Brightness | Typical 250 cd/m² |
| Maximum Resolution | 1024 x 768 |
| Title Angle | 0~90° |
| Touch Screen | 5-wire resistive type |

### Rear I/O

| | |
|---|---|
| Serial Port | 4 x Powered Serial Ports (5V/12V selectable) (One for Pole type VFD) |
| DC Jack | 24V Power Input Connector & 24V Power Output Connector |
| Cash Drawer Port | 1 x RJ11 (12V/24V selectable) |
| VGA | 1 x D-sub 15pin connector for 2nd display |
| HDMI | 1 x HDMI connector |
| USB | 2 x PC USB; 2 x 12V Powered USB; 1 x 24V Powered USB |
| LAN | 1 x Gigabit Ethernet |
| Keyboard & Mouse | 2 x 6-pin Mini-Din for Keyboard & Mouse |

### Front I/O

| | |
|---|---|
| Power Button | 1 |
| Reset Button | 1 |
| LED Indicator | 1 for Power; 1 for Storage Access |
| USB | 2 x PC USB |
| Audio | Line-In/Line-Out/Mic-In |
| Speaker | 2 x 2Watt |

### Power Adapter

| | |
|---|---|
| Input Voltage | 100~240VAC |
| Output Voltage | 24V |
| Power | 200Watts |

### Mechanical & Environment

| | |
|---|---|
| | CE & FCC Class A |
| Operation Temperature | 5°C~35°C |
| Storage Temperature | -20°C~55°C |
| Operation Humidity | 10%~90% RH non-condensing |
| Storage Humidity | 10%~90% RH non-condensing |
| Dimension | Monitor @ 90 degree: 334(H) x 374(W) x 358(D)mm Monitor @ 0 degree: 166(H) x 374(W) x 371(D)mm |

### MSR (Optional)

| | |
|---|---|
| Magentic Stripe Formats | 100~240VAC |
| Track | 24V |

### Customer Display (Optional)

| | |
|---|---|
| Pole Type VFD | 20 columns x 2 lines |

# POS Board

## Besides All-In-One POS System

and POS PC series, Portwell also dedicates to design different form-factor of motherboards for POS applications that create totally one-stop shopping for not only off-the-shelf products but also customized solutions to the market.

# POS PC

**Portwell PC POS series adopt Intel® latest ATOM** saving, less noise but better performance solutio contributes to the market with well ventilation, effective advantages.

## PCS-8100

### System

| | |
|---|---|
| Processor | Intel® Atom™ 330 Processor (1.6GHz) |
| FSB | 533MHz |
| Chipset | Intel® 945GC GMCH and ICH7R |
| System Memory | 2 x DDR2 Long-DIMM up to 2GB |
| Graphic Memory | Intel® 945GC GMA950 Engine |
| Storage | 1 x 3.5" SATA 300 |

### Rear I/O

| | |
|---|---|
| Serial Port | 4 x Powered Serial Ports (5V/12V selectable) |
| DC Jack | 24V Power Input Connector & 24V Power Output Connector |
| Cash Drawer Port | 1 x RJ11 (12V/24V selectable) |
| Display | Dual VGA; HDMI (Optional) |
| USB | 2 x PC USB; 2 x 12V Powered USB; 1 x 24V Powered USB |
| LAN | 1 x Gigabit Ethernet |
| Keyboard & Mouse | 2 x 6-pin Mini-Din for Keyboard & Mouse |

### Front I/O

| | |
|---|---|
| Button | 1 x Power Button, 1 x Reset Button |
| LED Indicator | 1 for Power; 1 for Storage Access |
| USB | 2 x PC USB |
| Audio | Line-In/Line-Out/Mic-In |

### Mechanical & Environment

| | |
|---|---|
| Operation Temperature | 0°C~45°C |
| Storage Temperature | -20°C~80°C |
| Relative Humidity | 5%~95% non-condensing |
| Dimension | 80(H) x 274(W) x 315(D)mm |

### Power Supply

| | |
|---|---|
| Input Voltage | 100~240VAC |
| Output Voltage | 24V |
| Power | 200Watts |

## PCS-9500

### System

| | |
|---|---|
| Processor | Intel® Atom™ 330 Processor (1.6GHz) |
| FSB | 533MHz |
| Chipset | Intel® 945GC GMCH and ICH7R |
| System Memory | 1 x DDR2 Long-DIMM up to 2GB |
| Graphic Memory | Intel® 945GC GMA950 Engine |
| Storage | 1 x Compact Flash |

### Rear I/O

| | |
|---|---|
| Serial Port | 2 x Serial Ports; 6 x Powered Serial Ports (5V/12V selectable/Optional) |
| Display | 1 x VGA; 1 x DVI |
| USB | 4 x PC USB; 2 x 12V Powered USB |
| LAN | 1 x Gigabit Ethernet |
| Audio | Line-In/Line-Out/Mic-In |
| Keyboard & Mouse | 2 x 6-pin Mini-Din for Keyboard & Mouse |

### Mechanical & Environment

| | |
|---|---|
| Operation Temperature | 0°C~45°C |
| Storage Temperature | -20°C~80°C |
| Relative Humidity | 5%~95% non-condensing |
| Dimension | 360(H) x 263(W) x 66(D)mm |

### Power Supply

| | |
|---|---|
| Input Voltage | 90~264VAC, Full range |
| Output Voltage | Max. 12V, output is 7.5A |
| Power | 100Watts |

## RUBY-9720VGAR

45nm Intel® Core™ 2 Quad processor based Micro-ATX Motherboard with Four DDR2 DIMM, DVI-I, VGA, Gigabit Ethernet, Audio and Optional Powered USB & Powered COM ports

- Intel® Core™ 2 Quad / Core™ 2 Duo processor
- Intel® Q45 and ICH10DO Chipset
- Four 240-pin DIMMs support dual channel DDR2 SDRAM up to 16GB
- Dual Display: VGA / DVI
- Optional Powered USB & Powered COM Ports via daughter board
- Support iAMT 5.0 and iTPM
- Six SATA-300 ports, support RAID0, 1, 5, 10

## PEB-9737VGA

Intel® GM45 plateform based POS board with dual DDR3 SO-DIMMs, VGA, Gigabit Ethernet, Audio, USB, Powered USB and eSATA

- Intel® Mobile Core™ 2 Duo and Celeron® M 575/585 Processor
- Intel® GM45 and ICH9M-E Chipset
- Latest DDR3 Technical with lower working voltage and higher density for more memory requirement
- HDMI port brings cost effective and easy to use for large size LVD TV connection with multimedia applications
- Optional Powered USB (5V & 12V) brings flexible for POS peripheral connections
- On board Mini-PCI Express connector for platform wireless solution connection

™ platform which deliver customer more power
ons. The advanced mechanical design also
light weight as well as competitive cost

# PCS-9200

## System

| Processor | Intel® Atom™ N270 Processor (1.6GHz) |
|---|---|
| FSB | 533MHz |
| Chipset | Intel® 945GSE GMCH and ICH7-M |
| System Memory | 1 x DDR2 SO-DIMM up to 2GB |
| Graphic Memory | Intel® 945GSE GMA950 Engine |
| Storage | 1 x Compact Flash or 1 x 2.5″ SATA 300 |

## Rear I/O

| Serial Port | 4 x Powered Serial Ports (5V/12V selectable) |
|---|---|
| DC Jack | 12V Power Input Connector |
| Cash Drawer Port | 1 x RJ11 (12V/24V selectable) |
| Display | 1 x VGA |
| USB | 2 x PC USB |
| LAN | 2 x Gigabit Ethernet |
| Audio | 2W Audio Amplifier for Line-Out |
| Keyboard & Mouse | Header |
| Power Button | 1 x Power Button |
| Reset Button | 1 x Reset Button |
| LED Indicator | HDD LED, Power LED |

## Mechanical & Environment

| Operation Temperature | 5ºC~35ºC |
|---|---|
| Storage Temperature | -20ºC~55ºC |
| Relative Humidity | 5%~95% non-condensing |
| Dimension | 65(H) x 210(W) x 150(D)mm |

# WADE-8057

Intel® Atom™ 330 1.6GHz Dual Core™ Processor based Mini-ITX Board with dual display, Gigabit Ethernet, Three SATA Ports, Four COM ports and Six USB Ports

- Intel® Atom™ 330 1.6GHz Dual Core Processor
- Intel® 945GC and ICH7 Chipset
- One 240-pin DIMM support single channel DDR2 SDRAM up to 2GB
- Dual Display: VGA/DVI
- One PCI expansion slot
- Three SATA Ports, One Compact Flash socket and One IDE connector

# PEB-2131VGA

3.5" Embedded size, Based on Intel® Atom™ N270 Processor with DDR 2 SDRAM, VGA/LVDS, Dual Display, Gigabit Ethernet and Audio

- The Intel® Atom™ N270 and 945GSE platform that provides cost effective solution technology
- SATA and CF interface provide best cost effective storage for market
- Support one SODIMM socket and up to 2GB memory size
- Support mini-PCI Express interface for wireless connection
- Dual Gigabit Ethernet (10/100/1G) with RJ-45 connector
- High Definition audio with 2-channel amplifier@6W
- Power COM ports and cash drawer GPIO for POS Application

# Your Domain, Matters!

## VMS (Vertical Market Service)

is dedicated to supporting POS, Gamming, IVI, Lottery, and Medical market from board level to system level and always helps customers develop reliable equipments. Humming bird is the representative symbol to show the four features of VMS, Speed, Focus, Precision and Flexibility.

## VMS Domain
### What is VMS, advantage OEM/ODM Service

ERD

PCB Layout Team

Production Express

*Collaboration*

BIOS/OS Team

System Integration

VMS
Vertical Market Service

MRD

NCT Factory

## Global Support
Worldwide office in the U.S.A, Taiwan, Japan, China, Netherland, United Kingdom, and India.

## Faster Time-to-Market
Portwell experienced engineers, complete product solution, Global operation and flexible business service help reducing your new product introduction cycle.

## State-of-the-Art Technology
Cooperating POC(Proof of Concept) and EA(Earlier Access) product with Intel, Portwell has strong design ability and state-of-Art-techology.

intel
Embedded and Communications Alliance
Associate

Intel® PRO
Network Connections

FC  CE  PICMG  RoHS  cUL E225800  TÜV ISO 9001  TÜV ISO 14001