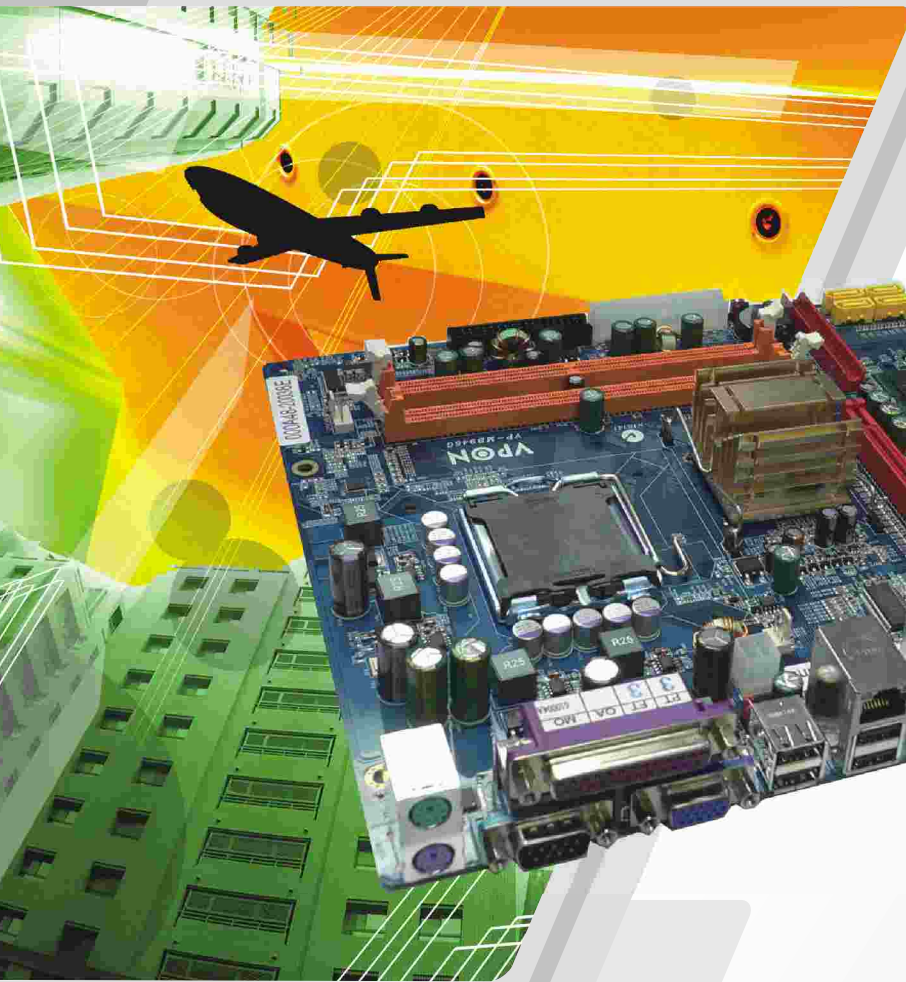


# VPON Motherboard

Your best choice for digital video recording and remote surveillance



VP-MB945G

## Introduction:

VP-MB945G Mainboard. It is based on Intel® 945G Northbridge chipset and Intel® ICH7 Southbridge chipset. It supports Intel® Pentium® Extreme Edition/Pentium® 4 Extreme Edition/ Pentium® D/ Pentium® 4/ Celeron® D Processor/Core™2 Duo with FSB (Front Side Bus) frequencies of 1066 MHz/ 800 MHz/ 533 MHz and provides two DIMM (Dual In-Line Memory Modules) sockets which allowing you to install 240-pin, unbuffered non-ECC, DDRII 667/ 533/ 400 SDRAMs.

It also supports Dual Channel Technology and allows you installing a total memory capacity of 2 GB and one IDE connector for IDE hard drives supporting Ultra ATA 66/100. Moreover, the mainboard comes with Serial ATA II feature, four SATA II connectors which the interfaces can provide the transmit rate up to 3 Gbps

VP-MB945G motherboard was designed for security applications. It is best suited for DVR machine assembly. It has 4 PCI slots and 2 PCI-E connectors with built-in RS-485 and GPIO devices. These special functions are different from commercially available motherboards. VP-MB945G is your ONLY choice for its stable, simple and valuable features.

# VPON Motherboard

## Specification:

- **CPU:**
  - Support Socket 775
  - Support Intel®Pentium®Extreme Edition/ Pentium®4 Extreme Edition/ Pentium®D/ Pentium®4/ Celeron®D Processor / Core™2 Duo
  - Support Hyper-Threading Technology
  - Support 1066 MHz/ 800 MHz/ 533 MHz FSB (Front Side Bus) Frequencies
- **Chipset:**
  - Northbridge Chipset Intel®945G
  - Southbridge Chipset Intel®ICH7
  - I/O Controller ITE®IT8712F
  - AC' 97 Audio Codec Realtek®ALC655
  - LAN Controller Realtek® RTL 8100C
- **Memory:**
  - Two DIMM sockets
  - Supports unbuffered & non-ECC DDRII 667/ 533/ 400 SDRAM
  - Supports a total memory capacity of up to 2 GB
  - Supports Dual Channel data bus
- **Onboard AC' 97 Sound Codec:**
  - High performance Codec with high S/N ratio (>90 db)
  - Compliant with AC' 97 2.3 specification
  - Supports 6-channel playback capability (Super 5.1 Channel Audio Effect)
  - Supports 3D stereo enhancement
  - Supports Sony/ Philips Digital Interfaces (S/PDIF) functionality (Optional)
- **Slots:**
  - Two PCI-Express interface slots for graphics card and expansion card:
  - PCI-E x16 slot: Supports up to x16 mode
  - PCI-E x1 slot: Supports up to x1 mode
  - Four PCI interface slots for expansion cards
- **Serial ATA II Connector:**
  - Four SATA II connectors
  - Supports SATA 2.0 specification and with transmit rate up to 3 Gb/ s
  - One SATA II connector can only support one SATA II HDD
- **Onboard LAN Chip:**
  - 10/100 Mbps Ethernet LAN supported
- **I/O facility Connectors**
  - One multi-mode Parallel Port is capable to support as the following:
  - Standard & Bi-direction Parallel Port
  - Enhanced Parallel Port (EPP)
  - Extended Capabilities Port (ECP)
  - Support one serial port
  - Support one VGA ports
  - Support a set of GPIO (CN1, CN2) headers
  - Support one PS/2 mouse port and one PS/2 keyboard port
  - Supports one SPDIF header and one IrDA header compatible with external devices connected
- **BIOS:**
  - Phoenix-Award™ BIOS
  - Support APM1.2
  - Support ACPI 2.0 power management
- **Green Function:**
  - Supports Phoenix-Award™ power management function
  - Supports system-wake-from-power-saving-mode by keyboard or mouse touching
- **Hardware Monitor Function:**
  - Monitors CPU/ Chassis Fan Speed
  - Monitors CPU and system temperature
  - Monitors system voltages
- **Watch Dog Timer:**
  - This function is used for detecting the system hangs during the POST stage due to conflicts resulting from changing the system BIOS settings. Once the problem is detected, the system will reset the configurations and reboot the system within five seconds.

Processor	Supports FSB 533/800/1066 Mhz Intel® Pentium D/ Pentium 4/ Celeron D Processor / Core™2 Duo
Chipsets	Intel i945G + ICH7
Super I/O Chip	ITE® IT8712F
Architecture	1PCI-E X16 , 1PCI-E X1, 4*PCI Slots
Power Connector	24 Pin ATX / 4 Pin ATX12V Connector
System Memory	Dual Channel DDRII x 2
Features	<ul style="list-style-type: none"> <li>◆ Suspend to RAM (S3)</li> <li>◆ Suspend to Hard Drive (S4)</li> <li>◆ Alert On LAN</li> <li>◆ Wake on Keyboard / Mouse</li> <li>◆ Wake on RTC Timer</li> <li>◆ System Thermal Monitoring</li> <li>◆ CPU Fan Monitoring</li> <li>◆ System Voltage Monitoring</li> <li>◆ PCI Rev. 2.3 Compliant</li> <li>◆ Watch Dog Timer</li> </ul>
Certification	<ul style="list-style-type: none"> <li>◆ FCC</li> <li>◆ CE</li> <li>◆ BSMI</li> </ul>

## Key features for security:

- On board VGA
- On board GPI x 16, GPO x 16 (Optional)
- SATA x 4
- PCI x 4 , PCI-Express x 2
- USB x 4, RS232 x 1, RS485 x 1

