

Desktop Killer – Save Your Space

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Xbook concept

Any PC that meets the following two requirements is called *Xbook*:

1) Same specification of a Desktop:

Nowadays Desktop is able to support any kind of CPU, Memory and graphics etc, therefore a **Xbook** should also provide the same type of support, especially the specification of the CPU and Memory. However, **Xbook** is designed as All-In-One, therefore the components have to be thermal fatigues just like Notebook's.

2) Same convenience of a Notebook:

Xbook must have the convenience and mobility of a Notebook, it has to be portable and much lighter and smaller than a Desktop, easy installation is a must as well.

Xbook
*Your Best
Partner for
Multimedia*



The *Xbook* supports conventional components like the latest Intel Pentium 4 Desktop Processor and Standard DDR SDRAM



Outstanding Performance

Xbook supports socket 478 Intel P4 processors from 1.4 to 2.8GHz including Northwood core, which utilize the most advanced 0.13u process technology, delivering robust features and speed needed to run nowadays leading applications. *Xbook* can easily handle the most memory-hungry applications. It is equipped with one DDR DIMM socket to support up to 1GB of DDR SDRAM DDR266 (DDR333 verified). *Xbook* features the advanced SiS 650 chipset with integrated high performance host interface and 3D/2D Graphics Engine which supports up to 64MB shared memory. The SiS "Ultra-AGP II" technology can interconnects the integrated VGA and memory controller with up to 2GB data transfer rate. The new bus architecture "SiS MuTIOL" connects SiS 650 and SiS 961 together, and delivers 533MB/s bandwidth between North Bridge and South Bridge. *Xbook* has 4 ports USB 2.0 and one IEEE1394 Firewire port which take care of the expansion need of the advanced user.

You must know the advantages...

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Xbook vs. Notebook

Advantages of <i>Xbook</i>	Disadvantages of Notebook
Battery is external, which eliminates the source of heat from battery and extend the life capacity of the components.	Battery is internal, battery heat would reduce the life capacity of the components to half of Xbook's .
External battery dissipates the heat to keep the Xbook's temperature low, which ensures the stability of the Xbook .	Battery is chemical, anything with chemical is a trouble maker, so internal battery could reduce stability and increase your maintenance fee.
No concern for battery life, CPU can perform at its full speed.	Intel CPU uses speedstep technology in order to idissipate and extend battery life, which lowers the performance of CPU.
1kg lighter than a Notebook.	Battery weights about 1kg, which means a Notebook is 1kg heavier than a Xbook .
Xbook uses the same specification of a Desktop, CPU, Memory, USB, 1394 ... etc., or even higher.	Notebook CPU schedule is always behind that of desktop CPUs.
CPU, Memory, HDD, CD-ROM are all replaceable, and it's easy for regular user to assemble which provides the best system upgraded solution.	It's not easy to assemble, need special assistance to upgrade CPU, Memory, and HDD.
Xbook can fit the freshest CPU technology. Use the battery whenever it's needed.	For most of the Notebooks, AC adaptor is used 90% of the time, so it's inefficient to have internal battery. Plus, battery device no longer fits the latest CPU technology.
Price is equivalent to a Desktop plus a LCD monitor, most of the people can afford it.	Price is expensive, not everyone can afford it.

Xbook vs. Desktop

Advantages of <i>Xbook</i>	Disadvantages of Desktop
Xbook is as light, thin, small and mobile as a Notebook, all you have to do is just plug in.	Hard drive, monitor, mouse, keyboard, speaker, and many wires, a desktop is heavy and hard to install.
Using Notebook components, thermal fatigue, designed and produced by the same manufacturer which ensures the stability.	Desktop components are designed and produced by different manufacturers which creates problems and lowers stability.
If you need to expand TV-Tuner or second HDD and CD-RW, simply via USB or IEEE 1394 peripheral.	Expandable, but if you need to expand TV-Tuner or second HDD and CD-RW, it's not easy for regular user to assemble.
CPU, Memory, HDD, CD-ROM are all replaceable, and it's very easy for regular user to assemble which provides the best system upgraded solution.	It's not easy to assemble, need special assistance to upgrade CPU, Memory, HDD, and CD-ROM.
Ducting to transfer the heat from the machine, the heat will be dissipated very fast and directly. No concern for CPU as contact.	Traditional Desktop heatsink is large and heavy, and it may fall out easily during the transportation. If there is no proper contact, CPU may be burned.
Multiple heat duct vents provide the best heat dissipation effect to keep the machine temperature low, it's easy for CPU to overclock and is not noisy.	When using the traditional cooling fan, the circulation heat makes the CPU hard to overclock and is very noisy.

You must know the expansion capacity...

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IEEE 1394

Supporting an IEEE1394 port, the *Xbook* allows fast data transmission up to 400Mbps of consumer electronics audio/video appliances, and provides enhanced connectivity for high-speed storage peripherals, and portable devices. The *Xbook* offers a way to connect all the digital products for digital video editing easily.

USB 2.0

The *Xbook* supports four USB 2.0 ports to provide high-speed devices functions up to 480 Mbps, such as high-density storage devices, high-quality video conferencing cameras, and high-resolution scanners. (USB 1.1 backward compatible)

Communication

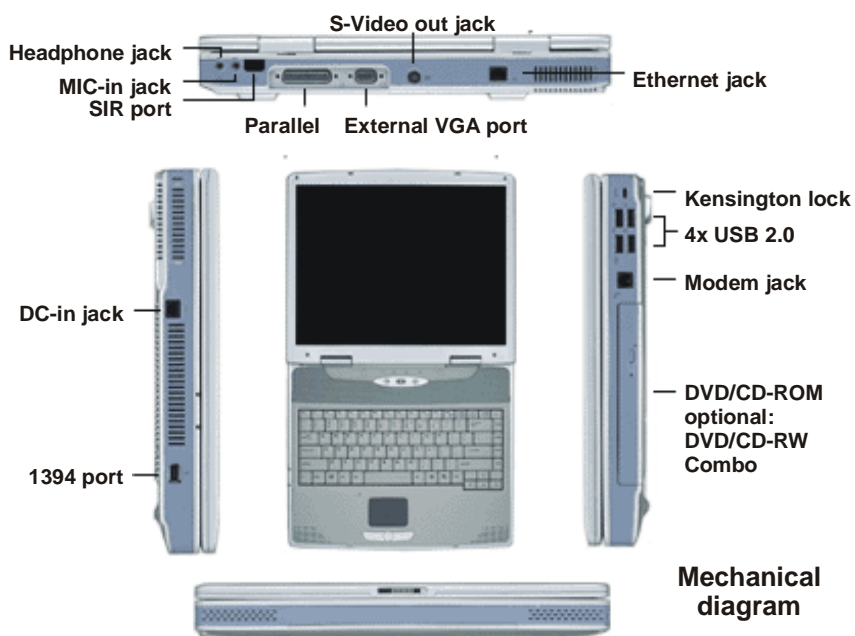
The *Xbook* also comes with both build-in 56K V.90 modem and 10/100 Base-T LAN networking so that web surfing and e-mail retrieval can be done anywhere and anytime.

TV-Out build-in

The S-video TV-Out function is build-in for easier management of business presentations or home entertainment. You can bring your experience onto your TV and it will become a perfectly high performance home entertainment system with TV-Out capabilities.

Enhanced stereo sound

Two high quality stereo speakers with chamber are build-in to provide ideal audio capability



Remove PCMCIA

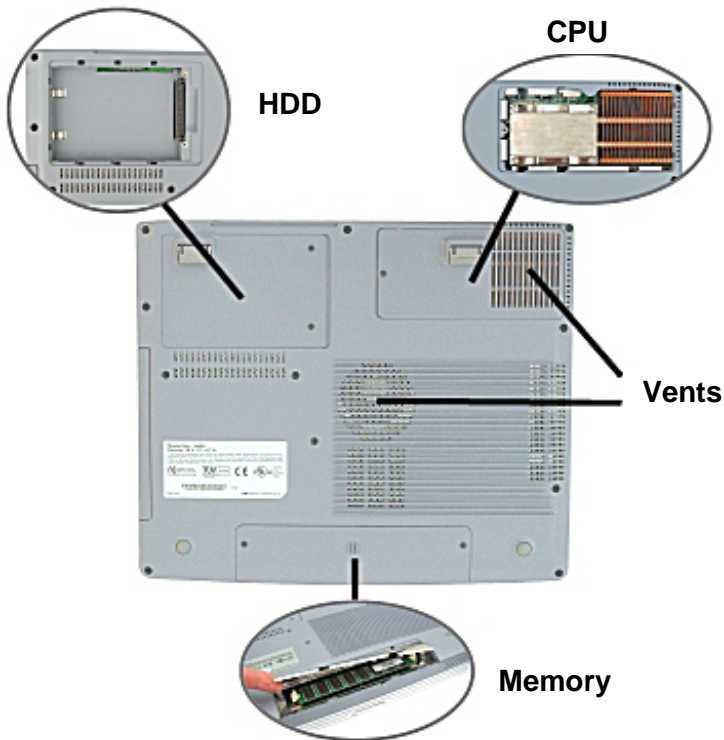
Main Reasons:

1. 90% of the Notebook users use PCMCIA for the expansion capacity of Modem, LAN, and TV-Out functions
2. *Xbook* has built-in Modem, LAN, and TV-out
3. *Xbook* has 4 ports USB 2.0 which take care of the expansion needs like CD-ROM, DVD-ROM, printer, mobile devices and so on.

Finally, PCMCIA is no longer appropriate because most of its functions have been eliminated and replaced. It's an old specification, takes a lot of space and has slow transfer rate. 90% of the Notebook users use PCMCIA as LAN, Modem and TV-out for expanding purpose, but these are all internal in the *Xbook*. In addition, some of the Notebook users use PCMCIA as smart card reader and wireless application, but PCMCIA provides less memory and slower transfer rate than a USB. The good news is USB 2.0 will be standardized in the *Xbook* system, it provides fast transfer rate and driver installation is unnecessary.

Xbook Convenience and Simplicity

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User-Friendly Design

In addition to 6 LED indicators, the *Xbook* also offers 2 shortcut keys allowing you to retrieve e-mail and surf the internet with just one touch of the button.

Furthermore, the *Xbook* is designed to have a number of upgrade options such as CPU, HDD, memory and optical device.



Battery is external and optional

Main Reasons:

1. Eliminate the source of heat from the battery
2. Preserve the life of the components
3. Reserve more space for dissipation to support Desktop CPU
4. Battery life is never long enough anyway. 90% of the Notebooks work with AC power.
5. External battery can also serve as a portable UPS.

A Notebook has serious dissipating problems due to its All-in-one design, that why Notebook CPU schedule is almost one year behind that of desktop technology. In order to solve these problems, we investigated the following:

- Battery is the main heat source of All-in-one computers, so if battery is external, it not only removes the major heat source to keep the machine temperature low, it also reserves more space for dissipation to support Desktop CPU and preserves the life of the components.
- Furthermore, we also noticed that 90% of the Notebooks work with adaptor because battery life is not long enough for a working day. Therefore adaptor should be the essential device, battery only functions as a backup.
- External battery doesn't effect the mobility and convenience of a Notebook. An external battery serves not only as a battery, it also serves as a portable UPS.
- Lastly, external battery makes the *Xbook* lighter.

Xbook is the perfect solution!

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Where can you use a PC?

- **At work**
Office, Meeting room, Client's office and meeting room.
- **At school**
Classroom, Library, Dormitory
- **At home**
Living room, Bedroom, Study room



Is Desktop portable?

We don't think so, because...

- Desktop is heavy and takes up too much space
- Desktop consists many parts and cables
- Not all place can fit such a big machine



Is Notebook the best PC?

- Notebook is lighter and smaller
- Notebook has an All-in-one housing
- Notebook is easy to operate



Then what is the perfect solution?

If there is a computer that has the price and performance of the Desktop, and the convenience and mobility of the Notebook, then isn't that the most wonderful PC on earth?

That's why we invent *Xbook*!

$$\begin{array}{|c|} \hline \text{portable} \\ \hline \text{Desktop} \\ \hline \end{array} + \begin{array}{|c|} \hline \text{affordable} \\ \hline \text{Notebook} \\ \hline \end{array} = \begin{array}{|c|} \hline \textcolor{red}{Xbook} \\ \hline \end{array}$$

Xbook Model XP400 Specification

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Processor	Socket 478 supports Intel Pentium 4 desktop processor up to 2.8GHz in FC-PGA2 package, 400MHz (100MHz quadpumped) system bus speed 0.18u Willamette core (256kB L2) or 0.13u Northwood core (512kB L2) Heat pipe processor cooling as effective thermal solution
Chipset	Northbridge: SiS 650, Southbridge: SiS 961 533MB/s high bandwidth MuTIOL between north- and southbridge
Memory	1 x 184pin socket supports up to 1GB DDR266/PC2100 SDRAM
Display	14.1" / 15.0" XGA TFT-LCD with 1024x768 resolution (16.7M colors)
Grafics	Built-in SiS 315 graphic core supports AGP 4X and 64MB shared memory
TV out	Video bridge SiS301LV provides TV out function
Audio	AC'97 2.2 compliance audio controller, line-out and mic connectors
Speaker/Mic	Built-in two high quality stereo speakers with chamber and microphone
Optical drive	8X DVD-ROM, 12.7mm height optional: combo drive (DVD-ROM + CD-RW)
IDE	supports ATA33/66/100 IDE harddisk, 2.5" 9.5mm height
Modem	56K / V.90 Conexant PCI software data/fax modem
LAN	Onboard full duplex 10/100 Base-T ethernet, MAC: SiS 961 built-in, RJ45
Infrared	Built-in SIR transceiver module, IrDA 1.3 compliant up to 4.0Mbps
Touchpad	Synaptics touch pad with scrolling up/down button
Keyboard	keys: 12x function, Windows function, 2x shortcut (Internet/E-Mail) full size, 19mm key pitch, 3.0mm key travel, inverted-T cursor layout US/Europe keyboards and other languages by order
Firewire	1x IEEE 1394 port supporting power, transfer rate up to 400Mbps
USB 2.0	Incorporates with four USB 2.0 ports, transfer rate up to 480Mbps
Power	AC adapter, input: 100~240V AC, 50-60Hz, output: 19V DC, 90W optional: external 12 Cells 2000mAh, 88Wh Li-lin battery pack
Security	BIOS password protection and Kensington lock hole provided
LEDs	Power, suspend/resume, HDD, number lock, caps lock, scroll lock
I/O Ports	1x parallel, 1x external VGA, 1x S-video TV-out, 1x RJ-11 jack modem, 1x RJ-45 for Ethernet, 1x SIR port, 1x 1394 Firewire, 4 x USB 2.0, 1x mic, 1x headphone, 1x 3-pin DC-in power jack
Dimension	330 x 281 x 39.7(min) / 44.7(max) mm, 13.07" x 10.81" x 1.56"/1.76"
Weight	3.18kg, 7.0 lbs (with 15.0" panel and DVD-ROM drive installed)
Compliance	PC2001, ACPI, UL, TUV, CB-report Microsoft Windows XP, 2000 Professional, ME/98SE, Linux Support suspend to RAM (S3), suspend to disk (S4) and soft off (S5)
BIOS	AMI 512K Flash BIOS, supports password, Plug & Play, ACPI and DMI
Accessories	S-video TV-out cable, phone cord, AC adapter, power cord, driver CD