Green Computing

The greenest desktop on earth

As green computing pioneers we take pride that our products are the most environmental friendly in the industry. We achieve that by focusing on all aspects of the product life cycle – ongoing usage, life cycle, production impact and recyclability.

Lowest Power Consumption

Maximum Life Cycle

Recyclability and Minimum Impact

Chip PC products fully comply with RoHS and WEEE regulations and our production fully conforms to ISO 14001.

RoHS

Lowest Power Consumption

The more power you use, the more you burden our environment. That's why we took low power consumption to the extreme.

At 3 Watts average, Chip PC Thin Client devices are **the lowest power consuming thin clients on the market**. That is 3%-5% the consumption of an average PC, and 10%-20% of an average thin client!

Maximum Life Cycle

Being environmental friendly means also minimizing trash, transportation and deliveries of hardware and reducing production of new products. Chip PC is proud to design its Thin Client devices **without any moving parts**, utilizing only the most reliable components out there, achieving more than **10 years life cycle**, 3 times the life cycle of an average PC.

Recyclability and Minimum Impact

Chip PC Thin clients are uniquely designed with recyclability and minimum environmental impact in mind.

- Ultra small size, less plastic and other materials used
- Only 100 components per device
- No metal-based capacitors or batteries
- Lead-free solder technology and minimum hazardous materials existence
- Compliance with RoHS and WEEE

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Highest Security Thin Desktops

Thin Client, Thick Walls

Chip PC Thin Computing solutions were chosen by the world's most secure government and financial organizations because they provide the **most secured desktop environment available** today. We achieve that with on our unique multi-layered security approach:

▷**Physical Security**

Chip PC Thin clients are designed with small form factor and unique security features

Jack PC – Highly secured wall mounted desktop

- 100% Theft Proof
- No exposed components (wall mounting)
- Special built-in mechanical lock
- Power-over-Ethernet (PoE)
- No exposed power source

Xtreme PC – secure small desktop

- Special metal anti-theft lock, also securing keyboard and mouse
- Special mounting kit for LCD back panel
- Optional built-in smart card
- Optional fiber optics networking
- Some models without USB ports

▷**Peripherals**

Strict remote control and configuration of connected peripherals

- Strict USB usage control using patented detection and power signatures
- Managed Policies based on device or user profile dictating allowed peripherals usage
- Detection and logging of all peripherals connection events
- Some models available without any peripheral ports
- Option to implement keyboard authentication scheme

▷**Software**

To ensure highest level of software security, Chip PC has designed its firmware with patented deployment, encryption and management functions

- 100% Data safe - No user data or configuration stored on device!
- 100% Virus immune with digitally signed plug ins
- Highly secured deployment using signed Plug-Ins as software add-ons
- On-the-fly role based device loading upon user log-in
- Encrypted image for each unique device
- No BIOS, no BIOS vulnerabilities
- Secured browser with kiosk mode, downloads and cookies

The security pyramid:

Management
Authentication
Software
Peripherals
Physical
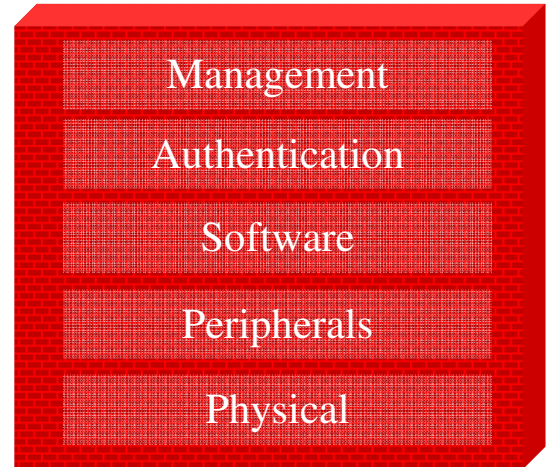
Chip PC introduces the strongest user and device authentication mechanisms available in any desktop.

User Authentication

- Integrated or external PC/SC PKI smart-card support
- Domain and Active Directory based user security settings, restrictions and privileges
- Single Sign-on, Pass-through user authentication
- Fully configurable Kerberos, NTLM and other authentications

Device Authentication

- Allow only pre-approved, authorized devices to run on the network
- Map all devices in the Xcalibur environment, indicating usage and physical location
- Isolate and block unused spare devices
- Configure device authentication separately per Farm/Site/Scope level

▷**Management**

Xcaliber Global, Chip PC's innovative management platform provides administrator with granular policy based security control over users and devices

- 100% Remotely managed
- Management based on Active Directory policies, leveraging Windows Security Scheme
- Full Multi-level administrative rights, delegation of control
- Management protocols use selectable high-encryption, compression and port settings (non-SNMP)
- Single-Sign-On using Xcalibur Global secured infrastructure
- Security desk, logging and events

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Reduced TCO with Thin Computing

More than 80% TCO Savings? Yes!

The Thin Revolution

Thin clients, virtualization and cloud computing are revolutionizing the desktop world. With extremely lower setup, configuration and ongoing management costs, fraction of the power consumption, half of the acquisition cost and double the lifecycle, Total Cost of Ownership (TCO) for Server Based Computing (SBC) has been established by numerous It organizations and Industry specialists to be as much as 50% lower than PC based desktops.

500 Thin Clients over 8 Years

Cost	Other Thin Client	Chip PC Thin Client
Thin Client HW	$ 166,667	$ 94,500
Server HW	$ 5,800	$ 5,800
Terminal Servers HW	$ 134,583	$ 134,583
Total Capital Cost	**$ 307,050**	**$ 234,883**
Thin client software licence costs	$ 9,500	$ 19,500
Thin client Windows licence costs	$ 232,000	$ -
Energy consumption costs (including servers & a/c)	$ 58,070	$ 12,538
Management support costs	$ 112,000	$ 56,000
Server maintenance costs	$ 2,645	$ 2,645
Total Operational Cost	**$ 414,216**	**$ 90,683**
Productivity impacts	$ 160,000	$ 80,000
Total Cost	**$ 881,266**	**$ 405,566**

Figure 1. Desktop PCs vs. SBC: TCO Summary

Source: Gartner (August 2008)
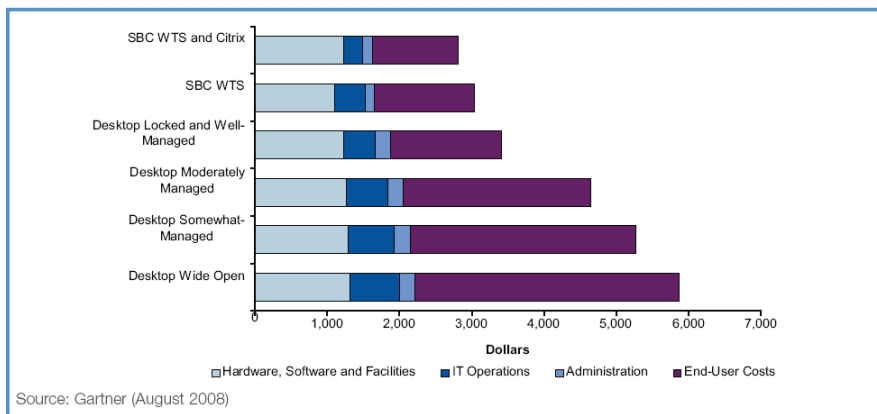
1 Source: Gartner - Desktop vs. Server Based Computing TCO

Chip PC – Pushing to 80% TCO Savings!

But at Chip PC we didn't stop at 50%, as we strive to further reduce desktop TCO, with ongoing research, innovation and creative design. That's why we achieved over 80% TCO savings over regular PC desktops, and **more than 50% TCO saving over competing thin client solutions**!

How do Chip PC saves cost compared to other Thin Computing vendors?

- 10 Years Life cycle
- Maintenance Free – no moving parts, remote upgrade
- Lowest power consumption in industry
- 100% remote installation
- 100% remote policy based management
- Very competitive acquisition cost
- Zero downtime

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Deploy and Manage Thousands of Thin Clients

Roll-out thousands desktops without leaving your office!

Rolling out and managing thousands of desktops across geographies and business units seem like a gigantic project. Not anymore! Chip PC combines Plug & Play remote deployment, automated policy based management and seamless integration to virtualization platforms, together saving you hundreds of hours in installation, setup and daily management of your desktops.

100% Plug & Play Remote Installation

Just drop-ship the ultra small Chip PC desktop to the user's office and as soon as the cables are connected the device automatically receives the right image from the server, and that's it! The user can immediately log in using her domain credentials and start working on the corporate applications or her own virtual desktop.

Point & Click Policy Based Management

Need to switch all users in Europe to a new server? One click. Enforce smart card authentication on all finance department users? One click. With the power of Policy based user and device management provided by Xcaliber Global, it's that easy. Based on Active Directory, device management seamlessly integrates into your current management policies, enabling you to leverage all your current groups and policies to manage the hardware and software configuration of the deployed thin clients.

Seamless Virtualization

Whatever virtualization technology you are using, Chip PC will seamlessly integrate with it. Citrix XenServer, Vmware Vcenter and Microsoft Hyper-V are all supported out-of-the box with custom tailored features specifically designed to leverage each platform's unique capabilities.

To learn more why global leaders such as FedEx, Lufthansa, Walmart and others have chosen Chip PC for thin clients mass deployment, please contact a sales representative to schedule a meeting.