![Chip PC Technologies logo]

Chip PC
Technologies
www.chippc.com

Xtreme PC
The Right Piece to Complete your SBC Solution

Xtreme PC
The Next Generation of Desktops...

The Next Step in Thin Client Technology

You have already started to fuel business efficiency and increase savings with your Server-Centric solution. Now it is time to extend it to a complete Thin Client Solution – Strong, Secure, Smart and Small.

With Chip PC thin clients you can reduce complexity and increase control. Chip PC thin clients offer an innovative wide range of clients including models with DVI/Analog video supporting multi-screens (Dual and Quad) and Wide Screens (16:9). User experience is optimized while management software provides full control and monitoring of Users & Groups as well as Devices.

With Chip PC thin clients you can maximize cost savings and leverage security. Chip PC thin clients are the world's lowest power desktops. Combined with top performance and leading management software they contribute to maximum cost savings.

Security-by-design is a built-in feature of Chip PC thin clients and software. Devices can be physically locked into place preventing the possibility of damage and theft. The local software image is 100% virus-immune, while the management software leverages Windows security by offering the Secure Authenticator extension.

The Xtreme PC is the most feature-rich Thin Client platform on the market today. Supported by the award-winning Xcalibur XP and Xcalibur Global management systems, it is the most secure, modular, and manageable Thin-Client solution offering connection to any type of popular Terminal, Citrix or Legacy servers.

Xtreme PC-EX and EX-NG thin clients range from basic, cost-effective models to advanced enterprise models; Featuring high security, extensive local functionality, wide selection of software plug-ins and advanced management solutions.

Xtreme PC thin clients are built around patented cold RISC architecture for highest reliability and longest service life.

Xtreme PC deployment is fully automated by using Xcalibur XP or Xcalibur Global remote management software systems. This is a real plug-and-play solution - Just connect the client to your network and the rest will happen automatically.

With its great performance, high security and easy deployment the Xtreme PC is the thin client of choice for enterprises and organizations around the world. This is the Next Step in Thin Client Technology - complete solutions that are Strong, Secure, Smart and Small.

Wasted local storage?
> Move it to the Server

Breakable PC parts?
> You need a reliable computer

Low data security?
> Server-based 100% secure

Heavy local applications?
> Move them to the Server

High electricity costs?
> Reduce it to only 5W per desktop

High Total Cost of Ownership?
> Save big with Chip PC…

With all this in mind... Who needs a PC?
Advance to Xtreme PC!!

√ High Performance
√ High Reliability
√ 100% Secured
√ Fully Managed
√ Low Power Consumption

Features	Benefits
Patented RISC-based Hardware Architecture	Alchemy au processor, Flash up to 64 MB DOC, DDR RAM up to 128 MB
Separate Video Memory	4-16 MB separate Video Memory dedicated only to video performance
DVI Video Out	Digital Video Connectivity to LCD modem screens offering best-picture quality and user convenience; Analog output also supported
Multi Screen Support	CE-based device offering models supporting Dual as well Quad (4) Display functionality
Wide Screen Support	Support for Wide Screens 16:9
PDA Synchronization	CE-based device offering full PDA synchronization
Plug-and-Play Connectivity	Fast and easy installation and deployment
Low Power Consumption	Only 5W at full work mode
Xcalibur Global Management Software	Centralized Remote Management. Manage thousands of thin clients remotely via standard Active Directory interface

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Integrated PKI Smart Card Reader/Writer	Increased Security by demanding to perform two factor authentication - Physical Smart Card and PIN code
Data Security and Integrity	No data is stored on the client so it cannot be stolen or lost
Virus/Trojan Immunity	Local operating system and additional software components are signed with Digital Signature so malicious code cannot run on the device
Fully Customizable Desktop Interface	Increased user productivity by providing familiar easy-to-use User Interface
Fully Modular Operation System	Provider a tailor-made station to each user
Latest ICA, RDP	Protocols include Chip PC enhancements
Multiple Sessions	Increased user productivity by enabling multiple sessions running on multiple servers simultaneously
Direct Session to AS400, Mainframe	Decreased load on the Server Farm by connecting directly to the required server

Chip PC Solutions with Fiber-Optic Network Connectivity

Chip PC Fiber-Optic Network Connectivity series was developed to address the needs for high-security thin desktops for defence and law-enforcement organizations. The Fiber-Optic series offers connectivity to high-security applications that need low-emanations and secured protocols as their standard work mode. The Fiber-Optic series features internal 10/100 Base-FX Fiber optic LAN interface, PC/SC PKI smart-card reader and advanced hardware IPSec engine. The Fiber-Optic series adds to the Thin Client industry a very secure and capable line of prodcuts.

Chip PC PC/SC PKI Smart Card Solutions

Chip PC thin clients push towards stronger client security by offering built-in or external support of PC/SC PKI smart card reader/writer. Chip PC Smart Card solutions are highly attractive for high-security markets, such as healthcare and government. Chip PC Smart Card solutions require PKI authentication and smart card insertion on top of other security measures. These solutions are operated with industry-leading, high-security PKI smart cards.
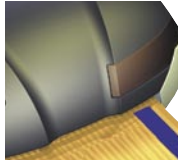
Physical Security - Desk Lock Down

Xtreme PC can be physically locked down to secure it from damage and theft. A specially-tailored, metal anti-theft lock is attached to the desk or any other surface. The device is then slotted into the lock and the lock is secured by a key. This makes the device ideal for public access areas where theft is a possibility. Special slots enable to secure keyboard and mouse together with the device.

Logical Security

Highest security is also featured in the Xtreme PC local image software with its unique modular operating system and Digital Signature layer. Data security and integrity is a certain thing as no data is stored on the client and therefore cannot be stolen or lost. Since the Local Operating System and additional software components are signed with Chip PC Digital Signature, the device is 100% Virus or Trojan immune. No malicious code can run on the Xtreme PC.

The Xcalibur Global Management Software adds yet another security layer to Chip PC solution. The Xcalibur Secure Authenticator leverages Windows security by providing a protected mechanism that allows controlling which devices can be used, who can use them and who has permissions to add devices to the system. In addition, asset management is possible by authenticating device Users in front of the Active Directory. Xcalibur Global also offers built-in support for SSL encryption, compression, port number control, bandwidth control & more.
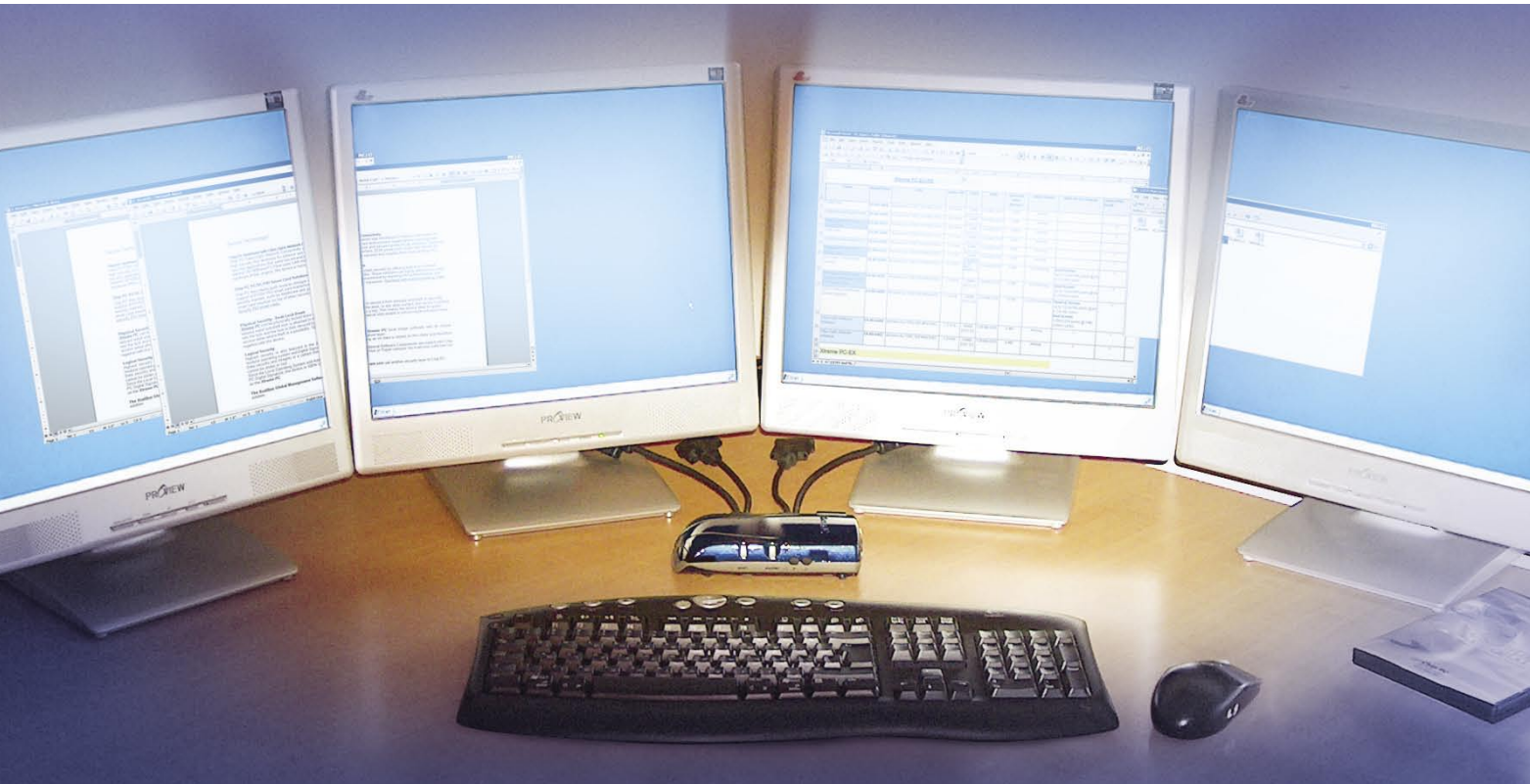
DVI/Analog Video, Multi-Display & Wide-Screen 16:9 Support

Need to support moders LCD displays, connect multiple displays to your thin clients and support wide-screen 16:9 displays? Chip PC offers you the only CE-based thin clients to support all these features.

DVI Video-Out Models:

Chip PC thin clients support digital video connectivity to LCD modern screens offering best-picture quality and user convenience; Analog output is also supported.

Multi-Display & Wide-Screen 16:9 Support

With the increasing demand for multiple sessions running on multiple displays, Chip PC extends its thin clients selection to support multiple displays 2 (Dual)-to 4 (Quad). Chip PC multi-display thin clients were designed specifically to streamline video presentation on multiple displays. This is perfect for users in demanding environments requiring wide working area, such as traders' desk applications with high-end financial applications also supporting wide screens 16:9.

Chip PC thin clients with DVI Video-Out can be connected to Dual or Quad (4) displays through Y-cables to be purchased as accessories from Chip PC. Chip PC Y-cables extend 1-DVI video out to either 2-DVI screens or 1-DVI screen and 1-Analog screen.
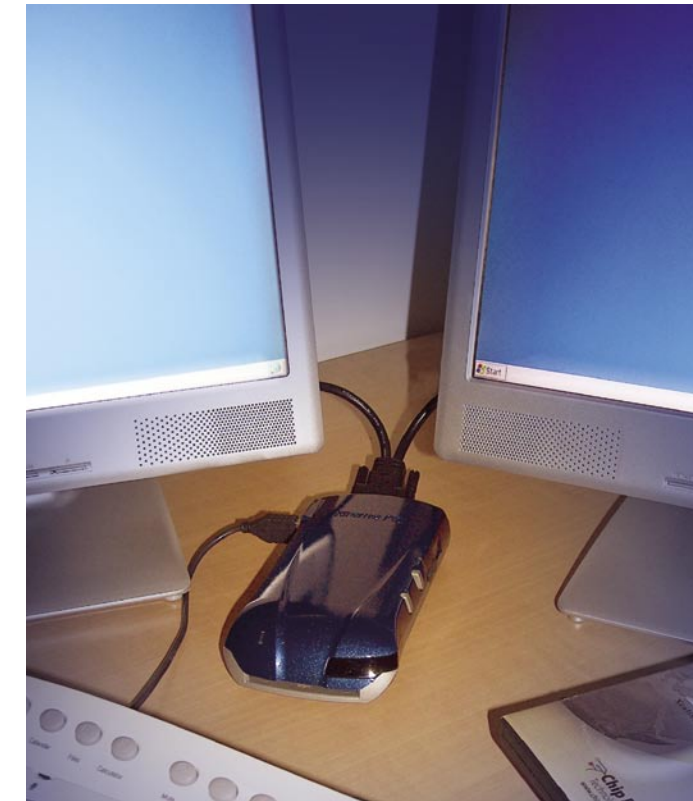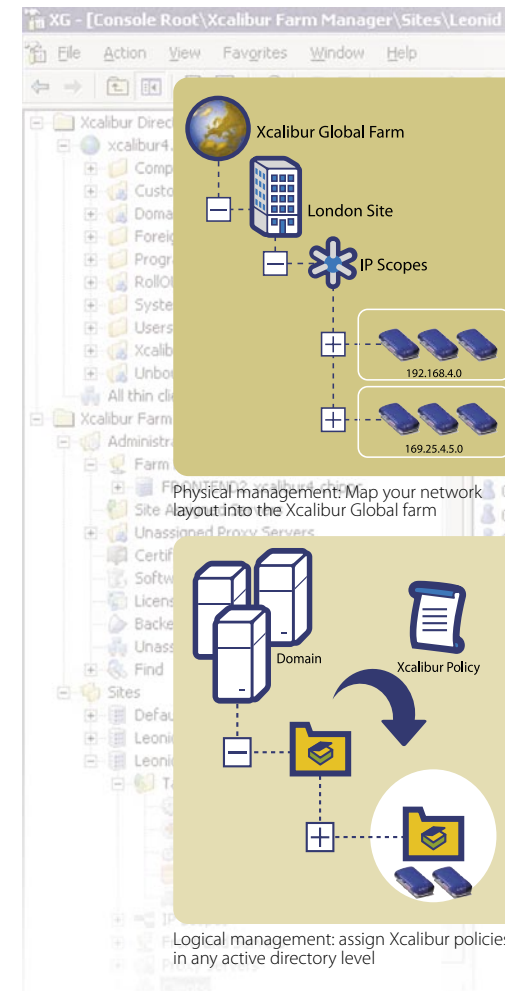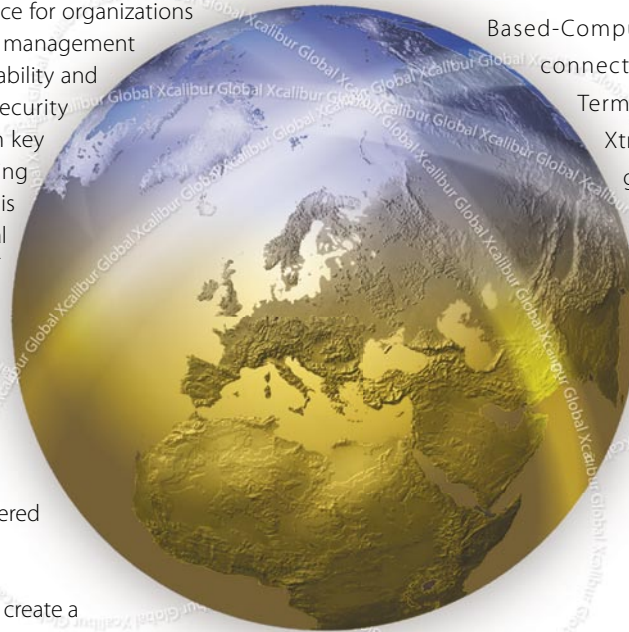
Xtreme PC Management

Today's global market place requires dynamic, flexible and secure thin client management to ensure smooth and economical maintenance and support. Xcalibur Global answers these needs while providing fault tolerance, speed, scalability and ease of management. Xcalibur Global is the best choice for organizations requiring large-scale, high-end management software. With unmatched scalability and reliability, flexible yet strong security architecture, compatibility with key industry standards and operating systems and manageability that is second to none - Xcalibur Global is sure to meet the demands of your business.

• Simplify administration of your thin clients and reduce costs
• Manage your devices from virtually anywhere
• Safeguard resources with layered security
• Improve interoperability
• Leverage existing systems to create a single point of management
• Deliver personalized services based on Users as well as devices
• Deploy thousands of remote devices without user intervention

The Ultimate SBC Environment

The Xtreme PC thin clients operate in a Server-Based-Computing environment offering connection to any type of popular Terminal, Citrix or Legacy server. Xtreme PC deployment and on-going maintenance are fully automated by using Xcalibur Global remote management software.

Physical management: Map your network layout into the Xcalibur Global farm

Logical management: assign Xcalibur policies in any active directory level

• The only Policy-based management software for Thin Clients and Users, similar to PC policy-based management

• The only dual-mode, flexible management software, combining Logical (Active-Directory-Based) and Physical (Xcalibur-Farm-Based) management models for maximum ease and control

• Minimum training is required to achieve full proficiency due to the similarity to standard PC management tools

• Single-point-of-total-control for Users, Groups & Thin Clients

• Full Synchronization with Windows 2000/2003 Active Directory:
  - Use Active Directory existing Tree-Structure Interface for Tasks-Management
  - Use existing Active Directory Permission Delegation and Inheritance model to assign management permissions

• Highly Secured Management suite with built-in support for SSL encryption, compression, port number control, bandwidth control & more

• Scalable to add Xcalibur Front-End-Servers to the Xcalibur-Farm as needed

• Built-in redundancy & load-balancing

• Remote software deployment, upgrade & recovery

• Centralized configuration and trouble shooting of devices

• MMC snap-in Interface functioning as part of a complete, standard organizational management environment

Chip PC industry-leading products provide thin client solutions fit for vertical market needs such as Healthcare, Government, Education, Hospitality, Finance, Military and more. Chip PC strong R&D capabilities enable tailored hardware and software solutions according to various vertical needs.

Xtreme PC in Verticals

Xtreme PC in Finance, Banking

The Challenge: Provide highest-security, remotely managed solutions

The Solutions: Chip PC solutions are highly attractive to the finance market and were chosen by national banks, such as Friesland Bank in the Netherlands, as well as by Global Banks such as BNP Paribas.

Friesland Bank operates in the Netherlands with more than 1,200 staff and 40 branch offices. Over 1,000 Xtreme PC thin clients and management software were deployed successfully at Friesland Bank. With Server-Centric access infrastructure solution, the ICT environment and its management were greatly simplified. Applications such as Office and financial packages can now be quickly and easily rolled out to the 1,200 workstations from the server. 35% on initial investment costs were saved, and where time-saving is concerned, the percentage is even higher. In addition, the bank gained centralized management, universal access to applications, bandwidth-independent performance and improved security. Over 1,300 Chip PC devices are now being deployed as first phase at the Global bank of BNPP. First stage implementation of Xtreme PC with Xcalibur Global included the countries of UK and France, later to be deployed all over the world.

Xtreme PC in Healthcare

The Challenge: Provide highly reliable, durable and data-secure solutions

The Solution: JLL, Jämtland County Council, is 1 out of 20 county councils in Sweden, which is responsible for public healthcare services in the county. With 4,000 employees JLL is responsible for all healthcare organizations from clinics to hospitals in the county. JLL has purchased over 2,000 Xtreme PC devices with Integrated PC/SC Smart Card Reader Supporting PKI authentication.

Since JLL IT personnel are outsourced, the management of the computing systems is done from a remote site. Chip PC remote management software was one of the critical factors for choosing the Chip PC solution. The solution also included implementation of the JLL Corporate Identity offered by Chip PC customization capabilities. JLL logo was reflected in software and hardware. All devices include Customized System Screens plug in, when the device boots up and when screen saver is turned on - JLL logo appears. In addition - the plastics (hardware) has been imprinted with the JLL logo on the top cover.

Xtreme PC in Government/ Municipalities

The Challenge: Provide high security, fully manageable solutions

The Solutions: Cardiff City Council and Newcastle City Council in the UK have implemented large deployments of EX devices accompanied by Chip PC management software.

Security was a major trigger for the decision to choose Chip PC solutions at the device as well as software management levels.

The county of Cardiff is the largest in Wales delivering services to approximately 320,000 people. Over 500 Chip PC thin client devices were deployed as first phase of moving to server-based computing infrastructure at Cardiff City Council. Devices are to be managed with Xcalibur Global management software enabling central management from a single location.

Newcastle City Council has deployed several hundreds of Xtreme PC thin client devices to include over 1,500 devices eventually. As of the release of Xcalibur Global, a smooth quick migration is carried out for the Xcalibur Global management software to remotely control the thin clients.

Xtreme PC in Services

The Challenge: Provide long-life cycle solutions remotely managed.

The Solutions: Ingeus Europe is one of the leading welfare-to-work providers to achieve the goal of supporting individuals into suitable, sustainable employment. Ingeus group employs over 1,000 people around Europe and in Australia.

Ingeus UK, Germany and France are in the process of rolling out several hundreds of Xtreme PC thin clients accompanied by Xcalibur Global management software, including the Domain Authenticator extension using Active Directory tree structure for management tasks and permissions allocation. The final phase will include over 900 devices. The decision to move to Server Centric solutions was received after PC hardware purchased just 3 years ago has reached end of financial life. To that effect the company was looking at adopting thin clients infrastructure providing longest product life and reliability. Furthermore, the German operation is planned from the start to be a complete thin client environment and any new contracts awarded by the government will also adopt the Server Centric infrastructure model. Chip PC with its highly reliable and longest life-cycle products including global-level management software was the ultimate choice for Ingeus Europe.

Models Specification

Class	Model Name	CPU	Equiv. x86	Flash	RAM	Separate Video Memory	Video Output	Multi Screen Support	Legacy Port -Serial	Legacy Port Parallel	USB Ports	Audio Support	Max Resolution (Single Screen Configuration)	Management Software
USB-Only	EX-NG 6000	Alchemy Au 1550, 333 MHz RISC	800 MHz	32MB DOC P3	64 MB DDR	4 MB	Analog	N	N	N	3	N	1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
USB&Serial/Parallel Ports	EX-NG 6050	Alchemy Au 1550, 333 MHz RISC	800 MHz	32MB DOC P3	64 MB DDR	4 MB	Analog	N	1	1	3	Y	1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
Integrated PC/SC PKI Smart Card	EX-NG 6052	Alchemy Au 1550, 333 MHz RISC	800 MHz	32MB DOC P3	64 MB DDR	4 MB	Analog	N	1	1	3	Y	1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
USB-Only	EX-NG 6400	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	Analog	N	N	N	3	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
USB&Serial/Parallel Ports	EX-NG 6450	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	Analog	N	1	1	3	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
Integrated PC/SC PKI Smart Card	EX-NG 6452	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	Analog	N	1	1	3	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
DVI Video, Dual Screen support	EX-NG 6500	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	DVI-I/Analog	Dual Screen up to 1024x768 pixels @ 64 K (16 bit) colors	1	N	3	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
DVI Video, Dual Screen support, Integrated PC/SC PKI Smart Card	EX-NG 6552	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	DVI-I/Analog	Dual Screen up to 1024x768 pixels @ 64 K (16 bit) colors	1	N	3	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
2xDVI Video, Dual/Quad Screen support	EX-NG 6600	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	16 MB	2 x DVI-I + Analog	Quad (4) Screen up to 1024x768 pixels @ 64 K (16 bit) colors Dual Screen 1280x1024 pixels @ 16M (24bit) colors	N	N	4	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
Fiber Optic Network Interface	EX-NG 6460	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	Analog	N	1	1	3	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
Fiber Optic Network Interface	EX-NG 6462	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	Analog	N	1	1	3	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors	Xcalibur Global
USB&Serial/Parallel Ports	EX-5070	Alchemy 333 MHz RISC	500 MHz	16 MB	64 MB	4 MB	Analog	N	1	1	3	Y	1280x1024 pixels, 16 M (24 bit) colors	Xcalibur XP or Xcalibur Global
USB&Serial/Parallel Ports	EX-5450	Alchemy 400 MHz RISC	800 MHz	32 MB	64 MB	4 MB	Analog	N	1	1	3	Y	1280x1024 pixels, 16 M (24 bit) colors	Xcalibur XP or Xcalibur Global

Class groups: Xtreme PC EX-NG (rows EX-NG 6000–6462); Xtreme PC-EX (rows EX-5070, EX-5450).

Note: EX support of Xcalibur Global or Xcalibur XP 3.x is pending on EX Image version. Image 6.0 supports Xcalibur XP, Image 6.5.x supports Xcalibur Global

Accessories

We thought of everything to give you the best user experience and cover any functionality and extension you might need.

Ports Adapter Converters/Cables

To extend USB connectivity we offer USB-to-PS/2 and USB-to-Serial cables enabling connection to PS/2 and Serial peripherals.

To extend DVI connectivity we offer the following conversion and adapter cables (for DVI video -out devices only):

Connection to VGA monitor through the DVI-to-VGA adapter

Connection to High-Definition-Multimedia-Interface through the HDMI-to-DVI

Connection to 2 screens for Dual/Quad Screen support through Y-cables of DVI to 1-DVI screen and 1-VGA screen or DVI to 2-DVI screens

External USB Smart Card Readers

For enhanced security, external Smart Card readers requiring insertion of a physical smart card in addition to the regular user login.
- USB PC/SC Smart Card Reader
- USB SCM Smart Card Reader

Wireless Connectivity

Chip PC USB Wireless LAN adapter is the perfect solution to enable fast, reliable high-speed wireless connectivity resulting in greatest productivity, efficiency and mobility. Latest wireless chip technology incorporated into Chip PC USB WLAN adapter provides for incredibly fast data transfer together with highly secured WiFi Protected Access (WPA).
With Chip PC USB Wireless LAN adapter you can enjoy the following benefits:
· Fast product deployment
· Independence from Ethernet wiring
· Organizational mobility
· Rapid data transfer

Device Lock-Down

Xtreme PC can be physically locked down to secure it from damage and theft. A specially-tailored metal anti-theft lock is attached to the desk, or any other surface, the device is slotted into the lock and the lock is then secured by a key.

This makes the device ideal for public access areas where theft is a possibility. Special slots enable to secure keyboard and mouse together with the device.
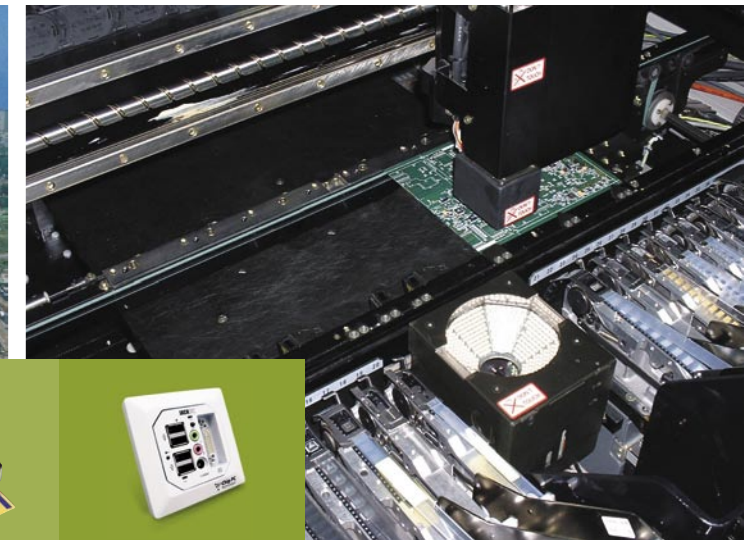
Powering

External power supply (available in EU, UK and US versions)

* To ensure compatibility with Chip PC thin clients, use only power supply and accessories supplied by Chip PC. For an updated list and supply time, please visit www.chippc.com

Chip PC - Making IT a Complete Solution

Chip PC offers industry-leading, end-to-end thin client solutions featuring:

Control – policy-based Xcalibur Global Management Software fit for large scale environments with full control & simultaneous support of thousands of clients & Users. Xcalibur Global owns MMC-Based Interface providing for fault tolerance, speed, scalability and ease of use.

Performance - micro form-factor, powerful thin clients, including the Xtreme PC-EX and EX-NG series and the LAN-integrated, PoE Jack PC-EFI series. Jack PC - not only a thin client - is part of an enterprise-level-solution of the Flex Jack.

Security -highly-secured solutions including robust modular image, Users authentication and much more.

Chip PC is the largest supplier of thin clients for various organizations. Chip PC products were rated first worldwide in an independent Thin-Clients-Evaluation among 26 thin clients from 9 vendors. Among Chip PC satisfied customers are top global organizations from various verticals, such as Healthcare, Finance, Defense, Government, Education and more.

Xcalibur Global Management Software

Xcalibur Global is policy-based enterprise management software designed for controlling large-scale environments and full support of thousands of clients & Users. Offering an MMC-Based Interface, it provides fault tolerance, speed, scalability and ease of management.

Xcalibur XP 3 Management Software

Xcalibur XP 3 is a full-scale management console, which provides remote, end-to-end control of thin-client devices & Users through a web-based interface.

Jack-PC

Jack PC is a patented, versatile, feature-rich thin client computer fully integrated into an existing network Jack. With the Jack PC you can quickly and easily convert an existing LAN jack into a fully-working, remotely-managed computer without installing additional cabling. The device is neatly embedded inside the LAN jack, connected at the back side through Ethernet cable to the building LAN and Power-over-Ethernet infrastructure, when available. Jack PC is designed to be powered by Power-over-Ethernet, but it can be powered externally if needed. The front panel is connected through cables or wirelessly to keyboard, mouse and other peripherals. Models include 4 USB ports, audio support, and video support of Analog/DVI including dual screen option supported.

Chip PC
Technologies

www.chippc.com

Chip PC International
Tel: +972 (4) 8501121
info@chippc.com

Chip PC UK
Tel: +44 (870) 6061007
info@chippc.co.uk

Chip PC Germany
Tel: +49 (201) 1850990
info@chippc.de

Chip PC France
Tel: +33 (6) 98165163
info.fr@chippc.com

Chip PC Benelux
info.nl@chippc.com
Tel: +31 (79) 7503729

Chip PC USA
Tel: +1 (877) 9244772
Tel: +1 (512) 2410250
info@chippc.com

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