



Xtreme PC EX & NG Series

User Manual

Document Version 0.5

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Chapter 1 Introduction

Welcome

Congratulations on purchasing an *Xtreme PC*.

This User Manual contains the information needed to set up the hardware of the *Xtreme PC* and covers all hardware aspects of the product.

For information concerning software aspects, please refer to the “Chip PC Thin-Client Firmware User Guide”.

Safety Notices

This section contains important safety notices. Please read carefully as improper handling of the product may result in serious personal injury and/or termination of warranty.

CAUTION! *Never open the product's enclosure and never attempt to replace or fix any internal part!
Any attempt to repair the product, install or replace components by an unauthorized person could expose that person to risk electrical shock and will cause the product warranty to be void.
For any problem, please contact the nearest authorized service provider.*

CAUTION! *To prevent possible electrical shock when installing the product, do the following:
Make sure that the connected display is properly grounded through the mains plug.
Any peripheral device the product might connect to must be connected to properly wired receptacles.*

CAUTION! *Never attempt to use a power supply other than the model supplied by the manufacturer and provided by Chip PC or an authorized service provider.
Connecting a different power supply may cause risk of electrical shock to the user or start a fire.*

CAUTION! *Do not use USB devices that power from the Xtreme PC. Heavy electrical loads on the USB ports can cause instable operation and excessive power supply heat buildup.*

CAUTION! *This product is designed for indoor use only!*

1 Safety Precautions

Please read the following safety precautions carefully before using the product:

- Before cleaning, disconnect the product from DC power.
- Be sure not to expose the product to excessive humidity.
- Be sure to install the product on a clean secure surface.
- Do not place the DC power cord in a path of foot traffic.
- If the product is not used for a long period of time, remove the product's wall-mount power supply from the socket.
- If one of the following situations occurs, get the product checked by a qualified service technician:
 - The product's power supply is overheated, damaged, broken, causes smoke or shortens the mains power socket.
 - Liquid penetrates the product's case.
 - The product is exposed to excessive moisture or water.
 - The product is not working well even after carefully following the instructions in this user's manual.
 - The product has been dropped or is physically damaged.
 - The product has obvious signs of breakage or loose internal parts.
- The product should be stored and used only in temperature and humidity controlled environments as defined in the product's environmental specifications.
- The wall-mount power supply used with this product should be the model supplied by the manufacturer or an approved equivalent provided by Chip PC or an authorized service provider. The use of improper power source will void product warranty.

2 Overview

The Xtreme PC is a desktop device that provides the user with a standard Windows interface while all applications are centrally run on a server(s).

The Xtreme PC, in the Windows-based Terminal (WBT) mode of operation, provides the following substantial benefits:

- Centralized management
- High network and system security
- Standard yet flexible desktop user-environments
- Minimum hardware breakdowns
- Easy maintenance and smooth upgrades

The Xtreme PC operates with:

- Microsoft Windows Terminal Server Edition (TSE)
- Citrix Servers
- VMware VDI

2.1 Intended Audience

This User Manual is primarily intended for IT staff and administrators, though end-users and others might find it helpful as well.

2.2 Main Topics

This User Manual covers the following main topics:

- Hardware setup: including mounting options, site preparation, cable connections and the functionality of buttons and LEDs.
- The use of Hardware Options: smart card, infrared port and internal 56K modem.
- A Quick troubleshooting section of common problems which one may encounter during the hardware setup process (refer to Chapter 3). For additional troubleshooting, refer to the FAQ (Frequently Asked Questions) section at our web site: <http://www.chippc.com/>.
- More Information
- Questions about the Xtreme PC should be directed to an authorized Chip PC service provider or the Technical Support Department of the distributor from which you purchased your Xtreme PC. Please have all pertinent information available when requesting help, including any error messages that may have appeared either on the Xtreme PC or on the server. In case your distributor/service provider fails to provide adequate support, please turn directly to Chip PC's technical support through <http://www.chippc.com/support/request/index.asp>

NOTE When the word “optional” is used, it relates to any port or expansion of the Xtreme PC device that appears some of the models; therefore, it is optional, meaning, model-dependant.

Chapter 2 Hardware Setup

Site Preparation

Before installing the Xtreme PC make sure that:

- The site wiring is appropriate (power and network)
- The site is away from devices that generate electrical noise, electromagnetic interference, heat, vibration, etc.
- The environmental requirements of the Xtreme PC as defined in the product specifications are met.

Unpacking the Xtreme PC

1 Package Contents

The Xtreme PC is shipped in a box containing the following items:

- An Xtreme PC device
- A wall mount power supply
- A Plastic Base Attachment (for attaching the device to any surface, e.g. monitor)
- A double-sided adhesive pad
- Product Documentation hardcopy (available only in some packaging options)
- Quick setup card
- Warranty card

2 Unpacking the Xtreme PC (Single Pack)

To unpack the Xtreme PC:

1. Open the box and remove the product documentation.
2. Hold the device and lift the platform on which the device is set.
3. Remove the device using a sliding motion directed forwards and upwards.
4. Beneath the platform, find the wall-mount power supply, the Plastic Base-Attachment and the double-sided adhesive pad.
5. Store the packing materials in case the device requires repacking.

Mounting the Xtreme PC

1 Mounting Options

The Xtreme PC can be located on a tabletop or it can be mounted on the monitor or any other flat rigid surface, as described in the following pictures:

NOTE *If the Xtreme PC includes the Smart Card option, insure that there is easy access to the Smart Card slot on the front side of the product.*



Figure 1: Tabletop Position



Figure 2: Horizontal Mounting Position



Figure 3: Vertical Mounting Position

2 Mounting Directions

The Xtreme PC mounting process is described in the following steps:

1. The *Xtreme PC* is shipped with a Plastic Base-Attachment and double-sided adhesive pad.
2. To mount the Plastic Base-Attachment, place it with the front side facing up (refer to Figure 4).



Figure 4: Plastic Base-Attachment

3. Now guide the slots at the bottom of the *Xtreme PC* onto the front of the Plastic Base Attachment (refer to Figure 5), and slide the *Xtreme PC* to the end of the Plastic Base Attachment.



Figure 5: Slide Xtreme PC onto the Plastic Base Attachment

4. Attach one side of the adhesive pad to the bottom of the Plastic-Base Attachment.
5. Attach the other side of the adhesive pad to the surface to desired mounting surface, insuring that the surface is clean and dry.
6. When the Plastic Base Attachment and the *Xtreme PC* is firmly secured to the surface; the product is ready for operation.

3 Connecting the Cables

Connect the cables to their respective ports and connectors, as described in the following steps:



Figure 6: Xtreme PC Ports (Right Side View)

1. Connect USB peripheral devices (USB keyboard, mouse, etc.) to a USB port.
2. Optional: Connect a peripheral device with a serial type connection (modem, PDA, bar code scanner, serial printer, etc.) to the DB-9, RS-232 port. Secure the connector with appropriate screws.
3. Optional: Connect a local printer with a parallel type connection to the DB-25 parallel port. Secure the connector with appropriate screws.

NOTE *USB devices can be connected after the product is powered ON, although some devices may experience driver loading.*

4. Connect a 10/100 BaseT Ethernet cable from the nearest network LAN jack to the RJ-45 LAN jack on the Xtreme PC. LEDs on the connector jack indicate network “link” and “activity”.

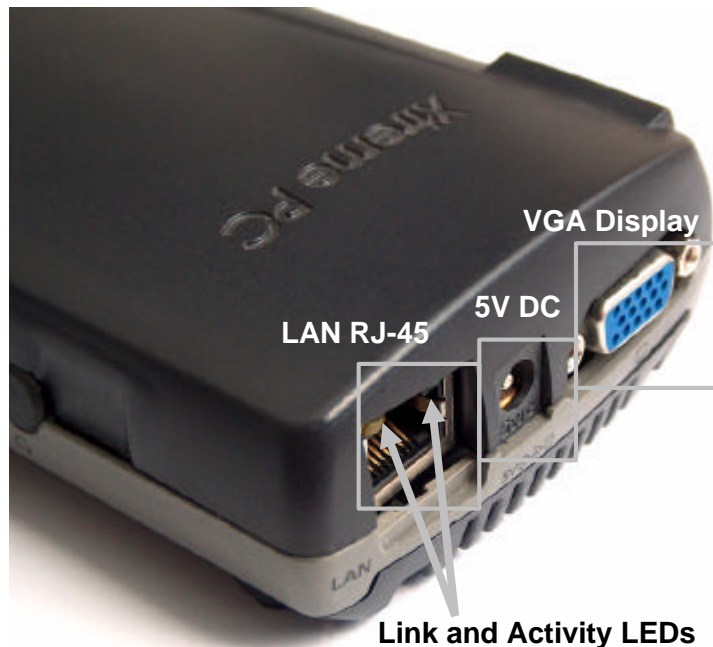


Figure 7: Xtreme PC Ports (Back View)

5. Connect the power adapter DC cord into the device's DC jack.
6. Connect the monitor video cable to the CRT DB-15HD connector.
7. Connect the monitor power cable to a power source and turn the monitor ON.
8. Connect the wall-mount power supply to the electrical socket. Once the Xtreme PC receives power, the ON/STBY LED will be lit in steady red.

NOTE The ON/STBY LED will change to steady green after pressing the ON/STBY button once the system finished booting up. In case a self-test procedure has failed, the ON/STBY LED will remain steady red.

NOTE In case the LEDs on the LAN connector are not lit, check that the network cable you are using is a standard one and that it is properly connected to the device and to a network jack.

9. Optional: Connect microphone to the Audio-In jack (pink).

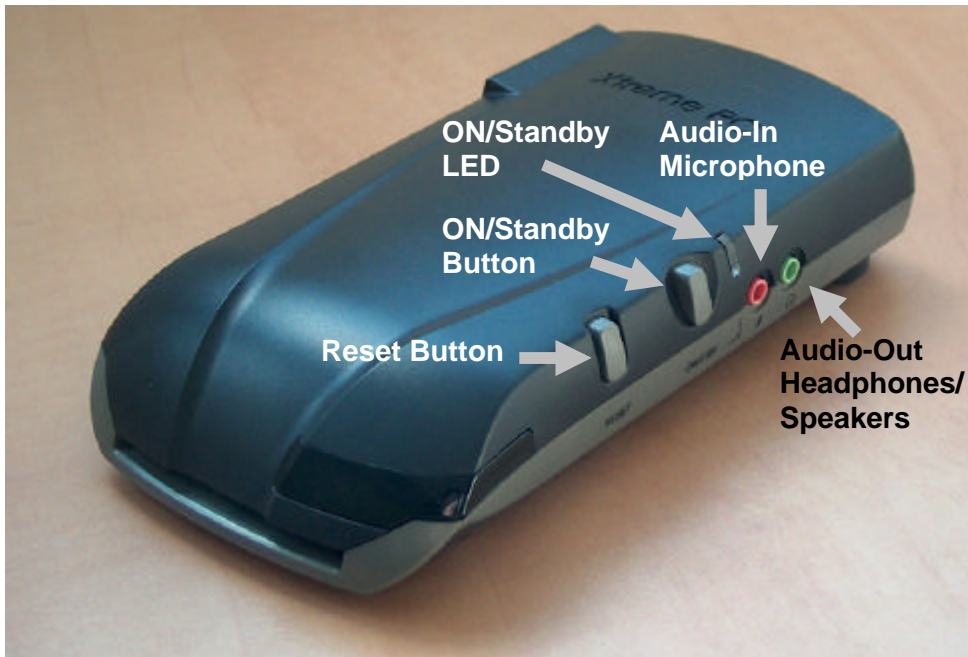


Figure 8: Xtreme PC Ports (Left Side View)

10. Optional: Connect headphones or external speakers to the Audio-Out jack (green).

Switching between the Xtreme PC ON/STBY Modes

1 Turning the System ON

After all peripherals and cables have been connected, follow these steps:

1. Turn ON all peripherals connected to the Xtreme PC ..
2. Press on the ON/STBY button. The green ON/STBY LED will blink as long as the system boots up.

NOTE If your system is configured to use a Smart Card (option) to power ON, then insert the Smart Card into the slot in front of the system. The smart card should be inserted correctly; the circuit chip should be facing up and in front for the system to power ON properly. After inserting the smart card, the system will boot up and the logon screen will be displayed (see section *sing The Smart Card*).

3. Once the system is up, the ON/STBY LED will be constantly ON (green). The system loading screen will appear, followed by several status messages. If the IP address is successfully received from the DHCP, the boot screen will be displayed.

2 Switching the System to Standby Mode

When the *Xtreme PC* is in Standby (STBY) mode it consumes less power; yet, its network connection remains active and it can switch back to ON mode within a few seconds. The Xcalibur management suite can wake-up the device from Standby mode.

Once the System is ON, follow these steps to switch the *Xtreme PC* to Standby mode:

1. Log off from any open connection/s.
2. Press the ON/STBY button to switch the system to STBY mode. The ON/STBY LED will turn from steady green to steady red and the monitor will be turned OFF (if monitor is Energy Star compliant).
3. Turn OFF the peripherals other than the monitor (i.e. printer).

NOTE *Pressing the ON/STBY button successively will switch between the ON and STBY modes of the Xtreme PC.*

3 Unplugging the System

If you are not going to use the system for a long period of time you should do the following:

1. Log off from any open connection/s.
2. Press the ON/STBY button to switch the system to Standby mode. The ON/STBY LED will turn from steady green to steady red and the monitor will be turned OFF.
3. Unplug the system from the electrical socket.

4 RESET Button

Pressing the RESET button will cause the Xtreme PC to reboot, execute self-test procedures and return to its last configuration.

NOTE *The RESET button performs reset only to the Xtreme PC device and not to the server; therefore, if there is some problem at the server level, Reset will not solve the problem.*

Chapter 3 Quick Troubleshooting

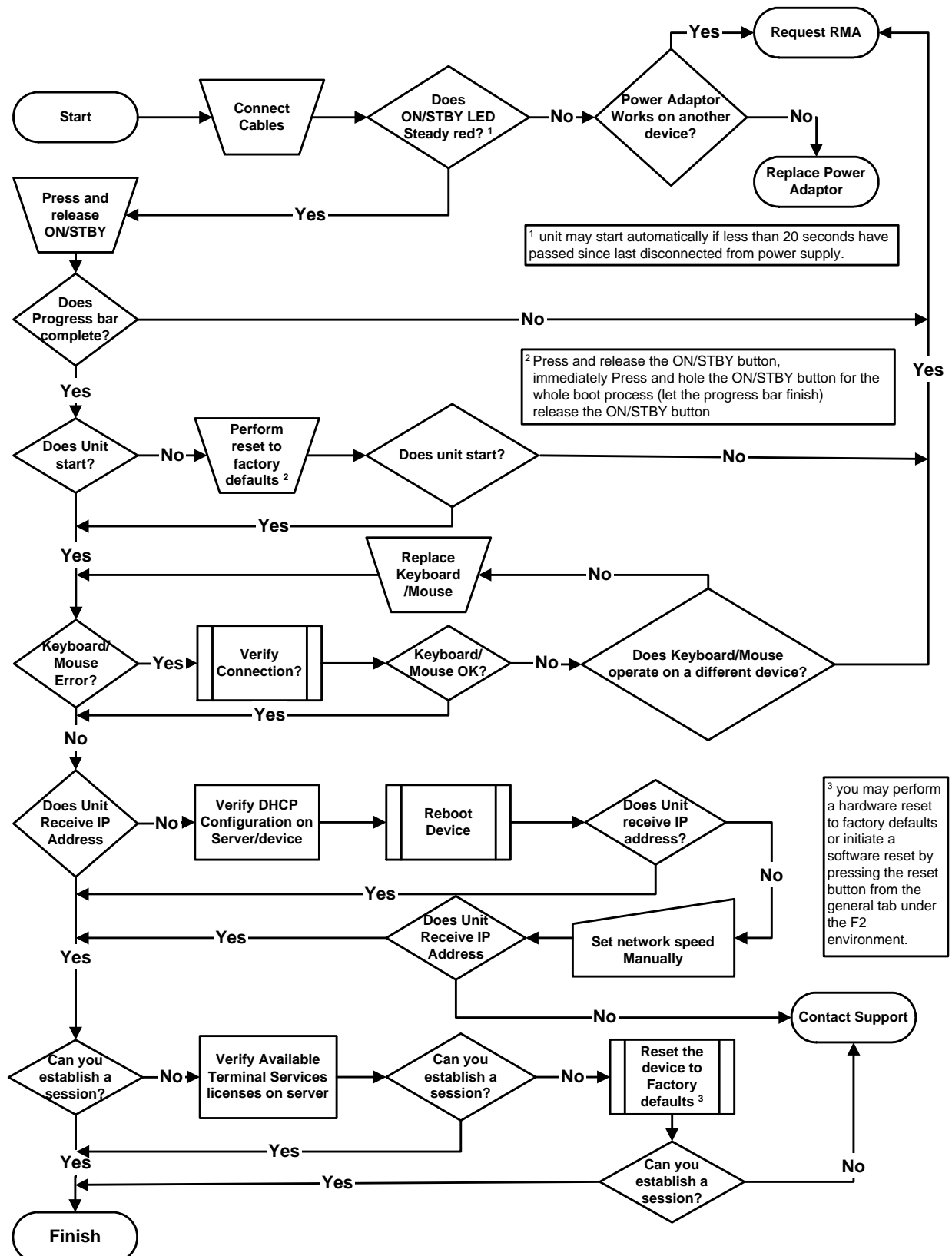
The following section describes common difficulties that may arise during the setup or use of the Xtreme PC and provides simple answers and solutions.

If problems are still encountered that cannot be resolved, please refer to an authorized service provider or distributor for assistance.

Table 1: Common Cases

Problem	Solution
After I connected the <i>Xtreme PC</i> 's wall-mount power supply to the electrical socket, the ON/STBY LED is not lit at all	<ul style="list-style-type: none"> Ensure that the DC cord is properly plugged into the DC jack at the backside of the <i>Xtreme PC</i>. Ensure that the wall mount power supply is properly plugged into a mains power socket. Ensure that the <i>Xtreme PC</i> is plugged into a mains power socket that works properly (try other electrical devices to verify power availability)
When I press the ON/STBY button – the ON/STBY LED remains steady red	<ul style="list-style-type: none"> If the <i>Xtreme PC</i> requires a Smart Card to power-on, make sure that the Smart Card is inserted properly (the Smart Card LED is lit in steady green after the card is inserted). If you checked the above and everything is OK, the <i>Xtreme PC</i> might have a malfunction and you should refer to an authorized service provider/distributor.
When I press the ON/STBY button – the ON/STBY LED turns green but the monitor remains blank...	<ul style="list-style-type: none"> Check whether the monitor is ON (its LED should be steady green when ON). If the monitor is ON, check the monitor brightness level. Make sure that the display connector is properly plugged in.
When I turn the <i>Xtreme PC</i> ON, the Connection Manager appears, but the mouse is not working...	<ul style="list-style-type: none"> Make sure that the mouse is properly plugged into a USB port on the <i>Xtreme PC</i> side. If the mouse is connected to a PS/2 adapter to USB port, check that the mouse and the keyboard connections were not switched so that the mouse is connected to the keyboard port.
When I turn the <i>Xtreme PC</i> ON, the ON/STBY LED turns green, the monitor is ON but I cannot see the introductory screen, only a clutter of colorful lines. NOTE: This problem might appear when the monitor does not support the <i>Xtreme PC</i> 's screen refresh rate.	<ul style="list-style-type: none"> Disconnect the DC power cable from the <i>Xtreme PC</i>'s DC jack. Press the ON/STBY button and hold it pressed for 5 seconds while reconnecting the DC power cable to the DC jack. <p>NOTE: The actions above will cause the <i>Xtreme PC</i> to return to its factory default settings with a low screen refresh rate that is probably supported by your monitor.</p>
During the <i>Xtreme PC</i> Power-ON Self-Test an error message appears...	<ul style="list-style-type: none"> Read the message and act according to its instructions. For example: if the message indicates a problem in the keyboard connection, make sure that the keyboard is properly connected to its port on the <i>Xtreme PC</i> side.
I cannot print to the Local Printer connected to my <i>Xtreme PC</i> ...	<ul style="list-style-type: none"> Make sure that the printer power cord is plugged into an electrical outlet and is turned ON. Check the cable connection from the printer to the <i>Xtreme PC</i> parallel/serial port. Make sure that the printer is on-line. Make sure that the printer is properly configured in the application server's Print Manager, and that the printer has not been Paused. Check that the printer is properly loaded with paper.
I cannot make a network connection using the Connection Manager...	<ul style="list-style-type: none"> Make sure you are using a standard LAN cable as the use of non-standard LAN cables may result in a loose contact or network connection failure. Make sure that the network cable is properly connected to the network connector on the back panel of the <i>Xtreme PC</i>. Make sure that the other end of the cable is connected to a properly working network outlet. Check with your network system administrator to ensure that the <i>Xtreme PC</i> is set up properly.

Chapter 4 Problem Detection Flow Chart



NG Specifications










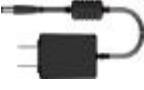


Model Name	CPU	Equiv. x86	Flash	RAM	Video Mem.	Video Output	Multi Screen Support	Serial/Paral.	USB Port	Audio Sup.	Max Resolution (Single Screen Configuration)
NG Series											
EX-NG 6000 Entry, USB Only	Alchemy Au 1550, 333 MHz RISC	800 MHz	32MB DOC P3	64 MB DDR	4 MB	Analog	N	N	3	N	1280x1024 pixels, 16 M (24 bit) colors
EX-NG 6050 Entry, various I/O	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
EX-NG 6052 Integrated Smart Card	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
EX-NG 6400 High-End, USB Only	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	Analog	N	N	3	Y	1600x1200 @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors
EX-NG 6450 High-End, various I/O	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
EX-NG 6452 Integrated Smart Card	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
EX-NG 6500 High-End, DVI, Multi Monitor (Dual)	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 serial	3	Y	1920x1200 RB @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors
EX-NG 6552 High-End, DVI, Multi Monitor (Dual), Integ. Smart Card	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	8 MB	DVI-D + Analog	Dual Screen up to 1024x768 pixels @ 64 K (16 bit) colors	1 serial	3	Y	1920x1200 RB @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors
EX-NG 6600 High-End, DVI, Multi Monitor (Dual-Quad)	Alchemy Au 1550, 500 MHz RISC	1.2 GHz	64MB DOC G3	128 MB DDR	16 MB	2 x DVI-I	Quad (4) Screen up to 1024x768 pixels @ 64 K (16 bit) colors Dual Screen 1280x1024 pixels @ 16M (24bit) colors	N	4	Y	1920x1200 RB @ 64 K (16bit) OR 1280x1024 pixels, 16 M (24 bit) colors
EX-NG 6460 High-End, Fiber Optic	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
EX-NG 6462 High-End, Fiber Optic, Smart Card	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

EX Specifications

Model Name	CPU	Equiv. x86	Flash	RAM	Video Mem.	Video Output	Multi Screen Support	Serial/ Paral.	USB Port	Audio Sup.	Max Resolution (Single Screen Configuration)
EX Series											
EX-5000 Entry, USB Only	Alchemy 333 MHz RISC	500 MHz	16 MB	32 MB	2 MB	Analog	N	N	2	N	1280x1024 pixels, 256 (8 bit) colors
EX-5070 Entry, various I/O	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
EX-5450 High End, Various I/O	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

Chapter 5 ACCESSORIES LIST

For an updated list, and more information, see Chip PC website at:
<http://www.chippc.com/products/accessories>

Name	Description	Image
USB PC/SC Smart Card reader	USB PC/SC smart card reader . ISO-7816 compatible, EMV-I approved, SCM SCR335, USB interface	
10 High security PKI smart-cards (blank)	Smart Cards for Win 2000, Win XP and Win 2003 PKI authentication	
USB to 2xPS/2 ports adapter	USB to 2xPS/2 ports adapter supporting PS/2 Keyboard, PS/2 mouse and PS/2 Barcode readers. Note: This device has a special firmware version installed. Other similar adapters available from other vendors may or may not work properly!	
DVI to VGA adapter	DVI to VGA adapter (for models with DVI-I video)	
USB to Serial port adapter	USB to Serial port adapter (Note: for Xtreme PC you will be required to upgrade your device to the latest Firmware!)	
USB to 2 Serial ports adapter	USB to 2 Serial ports adapter (Note: for Xtreme PC you will be required to upgrade your device to the latest Firmware!)	
Dual-screen Y Cable DVI-I to DVI-D and VGA	Dual-screen Y Cable DVI-I to DVI-D and VGA - to connect two monitors (one with DVI-D and another with VGA connector) to a single device (for models with DVI-I video)	
Dual-screen Y Cable DVI-I to DVI-D and DVI-A	Dual-screen Y Cable DVI-I to DVI-D and DVI-A - to connect two monitors (with DVI connectors) to a single device (for models with DVI-I video)	
Power Supply, wall-mount, EU, ROHS-Compliant	Power Supply, wall-mount, EU, ROHS-Compliant, 100-240VAC, 5VDC, 2.0A	
Power Supply wall-mount, US, 100-240VAC, 5VDC, 2.4A	Power Supply wall-mount, US, 100-240VAC, 5VDC, 2.4A	
Power Supply, wall-mount, UK, ROHS-Compliant	Power Supply, wall-mount, UK, ROHS-Compliant, 100-240VAC, 5VDC, 2.0A	
Wireless LAN USB dongle 802.11g	XG-705A Wireless LAN USB 2.0 dongle, IEEE 802.11 b/g - Enabling Xtreme PC and Jack PC to connect to wireless networks	

Chapter 6 REGULATORY COMPLIANCE

This product has been tested and found to comply with the limits of the regulations needed to receive the following marks:

- EMI/EMC: FCC Class B; CE Mark; VCCI.
- Electrical Safety: UL60950-1; cUL Listing; CE Mark (IEC/EN 60950).
- This product is ENERGY STAR labeled and meets the ENERGY STAR guidelines for energy efficiency.

Xtreme PC Requirements Compliance

- FCC Compliance - The *Xtreme PC* meets Class B requirements.
- IEC/EN Compliance - The *Xtreme PC* meets Class B requirements.

FCC Statements

1 FCC Part 15 – Class B

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced Radio/TV technician for help.

IEC/EN Notice

This product conforms to requirements of EN55022 for Class B product.

Modifications

The Xtreme PC is especially designed for many years of continuous operation. No maintenance or upgrade is possible for this product except for normal software configuration and loading that do not require opening of the product's external enclosure.

Never open the product's enclosure and never attempt to replace any internal part. Doing so might damage the product and will terminate the product warranty immediately.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods in order to maintain compliance with FCC Rules and Regulations.

Peripheral Devices

Only peripherals (input/output devices, printers, etc.) certified to comply with the Class B limits might be attached to this product. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Chapter 7 ENVIRONMENTAL & REGULATORY DETAILED INFORMATION

A. System Dimensions and Weight

Configuration	Depth, cm	Width, cm	Height, cm	Weight, kg
Xtreme PC	16	6	3	0.35

B. Declarations and Certifications

1 B1. Regulatory Compliance Information

This system received the following approvals and may be labeled with one or more of these marks depending on point of purchase:

Approvals	Certificate #/Standard	Yes / No / N/A
Energy Saving		
USA: Energy Star Compliance	N/A	Yes
EMC/EMI (Electro-Magnetic Compliance/Interference):		
European EU – CE Mark	EN55022 Class B, EN61000-3-2/3, EN55024 CISPR 22:1997 Class A Radiated, Power line Conducted EN 50081-1:1992 Emissions- Residential, Commercial EN 55022:1998 Class A Radiated, Power line Conducted EN 61000-3-2:1995 Power Line Conducted Emissions EN 61000-3-3:1995 Power Line Fluctuation and Flicker EN 55024:1998 Immunity- Information Technology Equipment EN 61000-4-2:1995 Electro-Static-Discharge (ESD) EN 61000-4-3:1997 Radiated Susceptibility EN 61000-4-4:1995 Electrical Fast Transient Burst	Yes
USA - FCC Mark	47CFR FCC Part 15, Subpart B:2003 Class B Commercial Equipment	Yes
Japan - VCCI Mark	N/A	Yes
Safety		
European EU	EN/IEC 60950-1:2001 Safety for Information Technology Equipment	Yes
USA & Canada - cUL	UL/cUL 60950-1:2003 Safety for Information Technology Equipment (UL File # E17001)	Yes

2 B2. US FCC Information

This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Note: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

CAUTION! *If you make any modification to the equipment not expressly approved by DTI, you could void your authority to operate the equipment.*

C. Performance Data¹

1 C1. Electromagnetic Compatibility

Systems marked with the symbol “CE” indicate compliance to the EMC Directive and the Low Voltage Directive of the European Union.

2 C2. System Configuration

The Energy Consumption and Declared Noise Emissions data is based on a device running the highest resolution and color depth setting, in 100BaseT full duplex network with ICA session presenting graphic intensive screen saver. Standard USB optical mouse and USB keyboard connected.

¹ This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you operate. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied. The information in this document may change without notice; please note the revision number on the last page.

D. Energy Consumption

Service Level	Energy Consumption (Wattage)	Heat Dissipation (BTU/hr)	Description of Service Level	Energy Save Requirements Meets EU ECO label (2001/686/EC and 2001/687/EC) Yes / No / N/A
*Maximum	6.00	13.6	The system is running programs to maximize the power consumption	N/A
Minimum	2.8	8.9	The system is in a waiting mode, such as at the local desktop no session is running	N/A
ACPI S3	0.6	2	The system is in a low-power/sleep mode	Yes
Off (standby)	0.6	2	The system is turned off but is still connected to its power source	Yes

Energy consumption is tested at 230 Volts / 50 Hz. Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Off data is not meant to show compliance to US Executive Order 13221.

*Maximum Energy Consumption results are based solely upon the testing of the System Configuration listed above.

E. Declared Noise Emissions in accordance with ISO 9296

Service Level	Sound Power (L_{WA} , bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Operator Position (L_{pAm} , decibels) (re 2×10^{-5} Pa)
Inside active ICA session	0.00	0.00
Idle – local desktop	0.00	0.00

F Product Materials Information

3 F1. Restricted Substances

This Chip PC product (plastic case parts, printed wiring boards, power supplies, and microprocessors) do NOT contain any of the following substances (in concentrations exceeding natural background levels)

- Asbestos
- Cadmium and its compounds above 100 parts per million (ppm)
- Halogenated dioxins or furans (i.e. polychlorinated dibenzodioxines, polychlorinated dibenzofurans)
- Halogenated flame retardants (chlorinated, brominated) in plastic parts over 25g
- Mercury (except for fluorescent bulbs used in display units)
- PCBs (polychlorobiphenyls) or PCTs (polychloroterphenyls)
- PBBs (polybromobiphenyls) or PBDEs (polybrominated diphenylethers)
- PVC (polyvinyl chloride) other than in cables and interconnect parts
- CFCs (chlorofluorocarbons), HCFCs (hydrofluorocarbons) and other ozone depleting substances

None of the substances included in the Montreal Protocol annex A, B, or C is used in Chip PC's manufacturing plants.

4 F2. Additional Materials Information

- The cables may use PVC as an insulating material to ensure product safety
- The case material is all metal
- This product does not contain one or more mercury bulbs

² Waste Handling. Local regulations should be observed when disposing of this product due to the presence of the materials and substances as listed above.

5 F3. Flame Retardants used in Mechanical Plastic Parts > 25 grams and Printed Wiring Boards

Part	Flame Retardant	ISO 1043-4	ISO 11469
Mechanical Plastic Parts > 25 grams PC+ABS	Triaryl Phosphate Ester	FR(40)	ISO 11469
Printed Wiring Board	TBBPA	FR(16)	N/A
Mechanical Plastic Parts > 25 grams ABS	None	None	ISO 11469

6 F4. Compliance with RoHS – Lead-Free Information

This product was redesigned to comply with the European Union's Directive 2002/95/EC, Restrictions of Hazardous Substances ("RoHS" Directive) and similar regulations that may be adopted by other countries. All products manufactured after the 1st of January 2006 are fully compliant with the European Union's Directive 2002/95/EC unless written differently on product will contain only allowed substances.

6.1 RoHS Declaration

This product does not contain RoHS restricted substances as homogeneous materials:

1. Greater than quantity limit of 0.1% (1000 PPM) for:
 - Lead (Pb)
 - Mercury
 - Hexavalent Chromium in non-metallic applications (paints, pigments and plastics)
 - Polybrominated Biphenyls (PBB)
 - Polybrominated Diphenyl Ethers (PBDE);
2. Hexavalent Chromium in metallic applications: Corrosion preventative coatings (conversion coatings) containing Hexavalent Chromium shall not be used in metal parts, components, materials or products. And impurities shall not exceed 0.1% (1000 PPM) in any metallic application;
3. Greater than quantity limit of 0.01% (100 PPM) for:
 - Cadmium.

G. Packaging

No CFCs (chlorofluorocarbons), HCFCs (hydrofluorocarbons) or other ozone depleting substances are used in packaging material. Chromium, lead, mercury, or cadmium are not intentionally added to packaging materials and are not present in a cumulative concentration greater than 100 ppm as incidental impurities. Printed user documentation is bleached in a chlorine-free process. (Europe Only)

Criteria	Yes / No
No halogenated plastics or polymers are used for packaging material	Yes
Complies with the EU Directive 94/ 62/ EEC	Yes
Depending on your point of purchase, packaging materials are labeled in accordance with DIN 6120 – “Marking of packing materials and packages for their recycling”	Yes

H. Batteries

This product does not contain any batteries

I. External Power Supply

Chip PC supplies its products, when applicable, with a power supply compliant with all needed regulatory compliance standards, such as UL-listed, Tuv-GS, FCC, CE etc.

J. DESIGN FOR ENVIRONMENT

Visit www.chippc.com/environment for more information.

K. Longevity and Upgrading

All Chip PC products are designed for easy assembly, disassembly, and disposal. To extend the life of your Chip PC product, you can install or upgrade certain software components (e.g., image, Plug-Ins). As Chip PC products are built for long life, products are in general not designed for repair.

L. Recyclables

For recyclables, this system incorporates the following design guidelines:

Criteria	Yes / No
Minimal use of non-separable connections, such as gluing and welding between different materials.	Yes
Minimal use of composite structure materials.	Yes
Painting/varnishing plastic material has been avoided.	Yes
Mechanical plastic parts greater than 100 grams consist of one material or of easily separable materials.	Yes

M. RECYCLING/ END-OF-LIFE SERVICE INFORMATION

Take back and recycling services are offered for this product in certain countries. If you want to dispose your product, contact Chip PC reseller or sales office for instructions.

N. Chip PC CORPORATE ENVIRONMENTAL INFORMATION

The following information is available at www.chippc.com/environment:

- Corporate Environmental Policy
- Environmental Reports
- ISO 14001 certified environmental management systems

Chapter 8 CHIP PC LIMITED HARDWARE WARRANTY

Chip PC warrants that the Xtreme PC you have purchased from Chip PC or from an authorized Chip PC reseller is free from defects in material and workmanship under normal use during the Limited Warranty period of 3 years. The warranty period commences on the date of purchase. Your sales receipt showing the date of purchase of the Xtreme PC is your proof of the date of purchase. This warranty is not transferable to anyone who subsequently purchases the product from you. This Limited Warranty does not include expandable parts.

Never open the product's enclosure and never attempt to replace or fix any internal part! Any attempt to repair the product, install or replace components by an unauthorized person could expose that person to risk electrical shock and will cause the product warranty to be void immediately.

Should the XTREME PC products require service during the term of the Limited Warranty, Chip PC would provide either mail-in or carry-in service.

Chip PC will repair or replace according to its own discretion the defective products or parts with new products or parts. All exchanged parts and products replaced under this warranty will become the property of Chip PC.

TO OBTAIN SERVICE UNDER THIS LIMITED WARRANTY for mail-in or carry-in you must receive from Chip PC a valid Returned Material Authorization (RMA) and only then return the product, freight prepaid and assured (or assume the risk of loss or damage during shipment) in the original container or an equivalent, to the designated Chip PC Authorized Service Center. If the unit was not registered, you should enclose a written receipt for the product, showing the date of purchase, distributor's or dealer's name from whom you purchased the product, and both the model and serial number of the product. Chip PC will pay the return ground shipping charge within the continental United States or within EU countries.

Limitations of Remedy

THIS LIMITED WARRANTY COVERS repair or replacement at the discretion of Chip PC of the XTREME PC device, power supply and other accessories if purchased from Chip PC. THIS LIMITED WARRANTY DOES NOT COVER losses or damages that occurred as a result of shipping; improper installation or maintenance by anyone other than an authorized representative of Chip PC; acts of God or accident; misuse, neglect, or misapplication of the product; installation of options or parts by anyone other than Chip PC; exposure to extremes of temperature or humidity; or improper electrical power. Products returned to Chip PC for service, in warranty and post warranty that are diagnosed as No Fault Found will be subject to a diagnostic and handling fee.

The Limited Warranty will be void in case of mechanical damage to the product or in case that the warranty seal is broken.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, REMEDIES OR CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESSED OR IMPLIED. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CHIP PC WARRANTY OBLIGATIONS AND BUYER'S REMEDIES ARE EXCLUSIVELY STATED HEREIN.

CHIP PC LIABILITY, WHETHER BASED ON CONTRACT, TORT, WARRANTY, STRICT LIABILITY OR ANY OTHER THEORY, SHALL NOT EXCEED THE PRICE OF THE INDIVIDUAL UNIT WHOSE DEFECT OR DAMAGE IS THE BASIS FOR THE CLAIM. IN NO EVENT SHALL CHIP PC BE LIABLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES. CHIP PC SPECIFICALLY DOES NOT REPRESENT THAT IT WILL BE ABLE TO REPAIR ANY PRODUCT UNDER THIS WARRANTY.

U.S.A. State Laws

Some states do not allow limitations on how long an implied warranty lasts, or allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

RMA Process:

The goal of the RMA Process is to determine whether a damaged unit can be fixed at the customer/channel site or it has to be shipped to Chip PC Service Center labs for testing & repairing.

- **RMA Certificate Request:** Chip PC offers its customers and channels a 24/7 online service of submitting an RMA request through the MyChipPC portal to be accessed from Chip PC website.
- **RMA Certificate Approval:** Chip PC technical expert will decide whether the problem can be resolved remotely; If yes, Chip PC technical expert will guide the customer/channel how to do so. If the problem cannot be resolved remotely, an RMA certificate will be issued including RMA #, date of expiration and address of the nearest Chip PC Service Center.
- **Shipping RMA Unit:** the RMA Device must be shipped to Chip PC Service Center appropriately packaged as not to be damaged during shipment and including printed copies of the RMA Certificate and the product Proof of Purchase. Chip PC reserves the right to file charges additional to repairing and testing on units that arrive not according to above specified criteria.
- **RMA Unit Status:** Chip PC technical expert will test the RMA Device and decide on one of the following actions:
 - Send replacement unit to customer
 - Repair device and send to customer.
 - NFF – No Fault found, unit returned to customer.

RMA Pricing guidelines for the above will be pending on Warranty status and will be specified in the following section “RMA Types & Related Pricing”.

- **RMA Pricing:** In case warranty is void for any reason (out-of-warranty-period, mishandling, NFF), and RMA handling is to be charged, Chip PC will issue a price quotation and continue only after receiving customer approval. Minimal fees for handling and initial testing might be charged in any case even when not repairing the device.

Limited Warranty Types:

Mail-In Coverage

The Customer will make the initial service request to the Chip PC Customer Service. If Chip PC determines that a repair is required, the Customer will receive instructions on returning the Product to Chip PC. The customer will return the product in its original package or an equivalent. The Customer will pay incoming freight charges and is responsible for any loss or damage to the Product while it is in transit. Upon completion of the repair, Chip PC will return the Product to the Customer, freight prepaid. A copy of your Warranty Certificate must accompany the Product. All non-Chip PC Product, accessories, attachments must be removed from the Product before it is mailed in for service. Chip PC shall not be responsible for items that are not removed.

Carry-In Coverage

The Customer will make the initial service request through Chip PC on-line RMA form. If Chip PC determines that a repair is required, the Customer must deliver the Product to a Chip PC Authorized Service Provider, make arrangements and pay for the transport of Product to Customer after its repair. A copy of the Customer's Warranty Certificate must accompany the Product. All non-Chip PC Product, accessories, attachments must be removed from the Product prior to taking Product to the Chip PC Authorized Service Center. Chip PC or Chip PC Authorized Service Provider shall not be responsible for items that are not removed or that are damaged before they are received by Chip PC or the Service Center.

Upgrade Commitment on behalf of Customer

In case Chip PC discovers some failure in its Software (e.g. Operating System, Management Software, Plug-Ins or any other aspect of its Software), the customer might be required to upgrade his software to a specific software version within a reasonable period of time. After the specified time has passed, Chip PC will not be held obligated to support the product under its Warranty or Extended Warranty terms and conditions.

NOTE *In case Chip PC has decided to replace the device, Chip PC will guaranty to re-issue all XPI and other rights from the RMA unit to the returned device.*

Chapter 9 CHIP PC LIMITED SOFTWARE WARRANTY

Chip PC (Israel) Ltd ("Chip PC") or any of its subsidiaries licensing the Software, if sale is not directly by Chip PC, warrants that commencing from the date of delivery to Customer (but in case of resale by a Chip PC reseller, commencing not more than ninety (90) days after original shipment by Chip PC), and continuing for a period of the longer of (a) ninety (90) days or (b) the period set forth in the Warranty Card accompanying the Product (if any): (a) the media on which the Software is furnished will be free of defects in materials and workmanship under normal use; and (b) the Software substantially conforms to its published specifications. The date of shipment of a Product by Chip PC is set forth on the packaging material in which the Product is shipped. Except for the foregoing, the Software is provided AS IS. This limited warranty extends only to the Customer who is the original licensee. Customer's sole and exclusive remedy and the entire liability of Chip PC and its suppliers under this limited warranty will be, at Chip PC or its service center's option, repair, replacement, or refund of the Software if reported (or, upon request, returned) to the party supplying the Software to Customer, if different than Chip PC. In no event does Chip PC warrant that the Software is error free or that Customer will be able to operate the Software without problems or interruptions. In addition, due to the continual development of new techniques for intruding upon and attacking networks, Chip PC does not warrant that the Software or any equipment, system or network on which the Software is used will be free of vulnerability to intrusion or attack.

Restrictions. This warranty does not apply if the Product (a) has been altered, except by Chip PC, (b) has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Chip PC, (c) has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident; or (d) is licensed, for beta, evaluation, testing or demonstration purposes for which Chip PC does not receive a payment of purchase price or license fee.

DISCLAIMER OF WARRANTY. EXCEPT AS SPECIFIED IN THIS WARRANTY, ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS, AND WARRANTIES INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, SATISFACTORY QUALITY OR ARISING FROM A COURSE OF DEALING, LAW, USAGE, OR TRADE PRACTICE, ARE HEREBY EXCLUDED TO THE EXTENT ALLOWED BY APPLICABLE LAW. TO THE EXTENT AN IMPLIED WARRANTY CANNOT BE EXCLUDED, SUCH WARRANTY IS LIMITED IN DURATION TO THE WARRANTY PERIOD. BECAUSE SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION. This disclaimer and exclusion shall apply even if the express warranty set forth above fails of its essential purpose.

General Terms Applicable to the Limited Warranty Statement and Software License

Disclaimer of Liabilities. IN NO EVENT WILL CHIP PC OR ITS SUPPLIERS BE LIABLE FOR ANY LOST REVENUE, PROFIT, OR DATA, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL, OR PUNITIVE DAMAGES HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY ARISING OUT OF THE USE OF OR INABILITY TO USE SOFTWARE EVEN IF CHIP PC OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. In no event shall Chip PC's or its suppliers' liability to Customer, whether in contract, tort (including negligence), or otherwise, exceed the price paid by Customer. The foregoing limitations shall apply even if the above-stated warranty fails of its essential purpose. BECAUSE SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATION OR EXCLUSION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

The Warranty and the Software License shall be governed by and construed in accordance with the laws of the State of Israel. If any portion hereof is found to be void or unenforceable, the remaining provisions of the Warranty and the Software License shall remain in full force and effect. Except as expressly provided herein, the Software License constitutes the entire agreement between the parties with respect to the license of the Software and supersedes any conflicting or additional terms contained in the purchase order.

If Customer has entered into a contract directly with Chip PC for supply of the Products subject to this warranty, the terms of that contract shall supersede any terms of this Warranty or the Warranty Card, or the Software License, which are inconsistent with that contract. The version in effect at the date of delivery of the Products to the Customer shall apply.

Upgrade Commitment on behalf of Customer

In case Chip PC discovers some failure in its Software (e.g. Operating System, Management Software, Plug-Ins or any other aspect of its Software), the customer might be required to upgrade his software to a specific software version within a reasonable period of time. After the specified time has passed, Chip PC will not be held obligated to support the product under its Warranty or Extended Warranty terms and conditions.

Chapter 10 CHIP PC SOFTWARE LICENSE AGREEMENT

IMPORTANT - READ CAREFULLY BEFORE USING THIS PRODUCT WHICH CONTAINS CHIP PC SOFTWARE AND MAY CONTAIN OTHER CHIP PC INTELLECTUAL PROPERTY. USING THIS PRODUCT INDICATES YOUR ACCEPTANCE OF THE FOLLOWING TERMS AND CONDITIONS.

This License Agreement is a legal agreement between you (either an individual or a single entity) and the manufacturer (MANUFACTURER) of the product, which contains software and firmware product(s) installed on the product and/or included in the package (SOFTWARE). By using the product on which software has been preinstalled, installing, copying or otherwise using the SOFTWARE, you agree to be bound by the terms of this agreement.

1. Grant of License

Chip PC grants you a license to Use one copy of the SOFTWARE. "Use" means storing, loading, installing, executing or displaying the SOFTWARE.

You may use the SOFTWARE in or in conjunction with the Product as provided to you. You may transfer ownership of the Product, including the right to use the SOFTWARE to another party so long as that party agrees to accept these terms and conditions. YOU MAY NOT USE, COPY, MODIFY, TRANSLATE OR TRANSFER THE SOFTWARE, OR MODIFICATION THEREOF, IN WHOLE OR IN PART, EXCEPT AS EXPRESSLY PROVIDED FOR IN THIS LICENSE. YOU MAY NOT DECOMPILE, REVERSE ENGINEER OR OTHERWISE DECODE OR ALTER THE SOFTWARE.

2. Disclaimer of Warranty

This SOFTWARE is provided, "AS IS," and is delivered with no warranties, either express or implied. CHIP PC MAKES AND YOU RECEIVE NO WARRANTIES ON THE SOFTWARE, EXPRESS, IMPLIED, OR STATUTORY, OR IN ANY OTHER PROVISION OF THIS AGREEMENT OR COMMUNICATION WITH YOU, AND CHIP PC DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR ANY PARTICULAR PURPOSE. CHIP PC DOES NOT WARRANT THAT THE FUNCTIONS CONTAINED IN THE PRODUCT WILL MEET YOUR REQUIREMENTS OR THAT THE OPERATION WILL BE UNINTERRUPTED OR ERROR FREE.

3. Limit of Liability

UNDER NO CIRCUMSTANCES SHALL CHIP PC BE LIABLE FOR LOSS OF DATA, COST OF COVER, OR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY. THESE LIMITATIONS SHALL APPLY EVEN IF CHIP PC OR ITS RESELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND NOT WITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN. YOU AGREE THAT THESE ARE THE ONLY APPLICABLE TERMS OF AGREEMENT BETWEEN US COVERING SOFTWARE AND THAT THEY SUPERSEDE ANY OTHER COMMUNICATIONS (ORAL OR WRITTEN) BETWEEN US RELATING TO THE SOFTWARE.

4. Export Restrictions

You agree you will not export or transmit the SOFTWARE to any country to which export is restricted by applicable US law or regulation without the written approval of the appropriate US Government organization.

5. U.S. Government Restricted Rights (Applicable to the US Market Only)

The SOFTWARE is provided with RESTRICTED RIGHTS. Use, duplication or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technological Data and computer software clause at DFARS 252.227-7013 or in subparagraphs (c)(1) and (2) of the Commercial Computer Software-Restricted Rights at 8 C.F.R. 52-227-19 as applicable.

6. Ownership

The SOFTWARE is owned by Chip PC or its third party suppliers. Your license confers no title or ownership in the Software and is not a sale of any rights in the SOFTWARE.

7. Upgrade Commitment on behalf of Customer

In case Chip PC discovers some failure in its Software (e.g. Operating System, Management Software, Plug-Ins or any other aspect of its Software), the customer might be required to upgrade his software to a specific software version within a reasonable period of time. After the specified time has passed, Chip PC will not be held obligated to support the product under its Warranty or Extended Warranty terms and conditions.

8. Termination

Chip PC may terminate your license upon notice for failure to comply with any of these License Terms. Upon termination, you must immediately destroy the SOFTWARE, together with all copies, adaptations and merged portions in any form.

9. Patents

Chip PC Software is protected by multiple international patents.

Chapter 11 MICROSOFT END USER LICENSE AGREEMENT (EULA)

EULA for Microsoft® Windows® CE Operating System for Windows-based Terminal Devices

IMPORTANT - READ CAREFULLY

This End User License Agreement (EULA) is a legal agreement between you (either an individual or a single entity) and the manufacturer (MANUFACTURER) of the special purpose computing device (SYSTEM) you acquired which includes certain Microsoft software product(s) installed on the SYSTEM and/or included in the SYSTEM package (SOFTWARE). The SOFTWARE includes computer software, the associated media, any printed materials, and any online or electronic documentation. By installing, copying or otherwise using the SOFTWARE, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, MANUFACTURER and Microsoft Licensing, Inc. (MS) are unwilling to license the SOFTWARE to you. In such event, you may not use or copy the SOFTWARE, and you should promptly contact MANUFACTURER for instructions on return of the unused product(s) for a refund.

Software License

The SOFTWARE is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The SOFTWARE is licensed, not sold.

1. Grant of License

SOFTWARE includes software already installed on the SYSTEM (SYSTEM SOFTWARE) and, if included in the SYSTEM package, software contained on the CD-ROM disk and/or floppy disk(s) labeled "Desktop Software for Microsoft Windows CE" (DESKTOP SOFTWARE). This EULA grants you the following rights to the SOFTWARE:

• SYSTEM SOFTWARE

You may use the SYSTEM SOFTWARE only as installed in the SYSTEM.

• DESKTOP SOFTWARE

DESKTOP SOFTWARE might not be included with your SYSTEM. If DESKTOP SOFTWARE is included with your SYSTEM, you may install and use the component(s) of the DESKTOP SOFTWARE in accordance with the terms of the end user license agreement provided with such component(s). In the absence of a separate end user license agreement for particular component(s) of the DESKTOP SOFTWARE, you may install and use only one (1) copy of such component(s) on a single computer with which you use the SYSTEM.

• Use of Windows CE Operating System for Windows-based Terminal Devices with Microsoft Windows NT Server, Terminal Server Edition

If the SOFTWARE is Windows CE operating system for Windows-based Terminal devices, the following special provisions apply. In order to use the SYSTEM in connection with Windows NT Server, Terminal Server Edition, you must possess (1) a Client Access License for Windows NT Server, Terminal Server Edition and (2) an end user license for Windows NT Workstation or an end user license agreement for Windows NT Workstation for Windows-based Terminal Devices (please refer to the end user license agreement for Windows NT Server, Terminal Server Edition for additional information).

MANUFACTURER may have included a Certificate of Authenticity for Windows NT Workstation for Windows-based Terminal Devices with the SYSTEM. In that case, this EULA constitutes an end user license for the version of Windows NT Workstation for Windows-based Terminal Devices indicated on such Certificate of Authenticity.

• Back-up Copy

If MANUFACTURER has not included a back-up copy of the SYSTEM SOFTWARE with the SYSTEM, you may make a single back-up copy of the SYSTEM SOFTWARE. You may use the back-up copy solely for archival purposes.

2. Description of Other Rights and Limitations

• Speech/Handwriting Recognition

If the SYSTEM SOFTWARE includes speech and/or handwriting recognition component(s), you should understand that speech and handwriting recognition are inherently statistical processes; that recognition errors are inherent in the processes; that it is your responsibility to provide for handling such errors and to monitor the recognition processes and correct any errors. Neither MANUFACTURER nor its suppliers shall be liable for any damages arising out of errors in the speech and handwriting recognition processes.

• Limitations on Reverse Engineering, Decompilation and Disassembly

You may not reverse engineer, decompile, or disassemble the SYSTEM SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation.

• Single SYSTEM

The SYSTEM SOFTWARE is licensed with the SYSTEM as a single integrated product. The SYSTEM SOFTWARE installed in Read Only Memory (ROM) of the SYSTEM may only be used as part of the SYSTEM.

• Single EULA

The package for the SYSTEM SOFTWARE may contain multiple versions of this EULA, such as multiple translations and/or multiple media versions (e.g., in the user documentation and in the software). Even if you receive multiple versions of the EULA, you are licensed to use only one (1) copy of the SYSTEM SOFTWARE.

• Rental

You may not rent or lease the SOFTWARE.

• Software Transfer

You may permanently transfer all of your rights under this EULA only as part of a sale or transfer of the SYSTEM, provided you retain no copies, you transfer all of the SOFTWARE (including all component parts, the media, any upgrades or backup copies, this EULA and, if applicable, the Certificate(s) of Authenticity), and the recipient agrees to the terms of this EULA. If the SOFTWARE is an upgrade, any transfer must include all prior versions of the SOFTWARE.

• Termination

Without prejudice to any other rights, MANUFACTURER or MS may terminate this EULA if you fail to comply with the terms and conditions of this EULA. In such event, you must destroy all copies of the SOFTWARE and all of its component parts.

3. Upgrades

If the SYSTEM SOFTWARE and this EULA are provided separate from the SYSTEM by MANUFACTURER and the SYSTEM SOFTWARE is on a ROM chip, CD ROM disk(s) or floppy disk(s), and labeled "For ROM Upgrade Purposes Only" ("ROM Upgrade"), you may install one copy of the ROM Upgrade onto the SYSTEM as a replacement copy for the SYSTEM SOFTWARE originally installed on the SYSTEM and use it in accordance with Section 1 of this EULA.

4. Copyright

All title and copyrights in and to the SOFTWARE (including but not limited to any images, photographs, animations, video, audio, music, text and "applets," incorporated into the SOFTWARE), the accompanying printed materials, and any copies of the SOFTWARE, are owned by MS or its suppliers (including Microsoft Corporation). You may not copy the printed materials accompanying the SOFTWARE. All rights not specifically granted under this EULA are reserved by MS and its suppliers (including Microsoft Corporation).

5. Product Support

Product support for the SOFTWARE is not provided by MS, its parent corporation, Microsoft Corporation, or their affiliates or subsidiaries. For product support, please refer to MANUFACTURER's support number provided in the documentation for the SYSTEM. Should you have any questions concerning this EULA, or if you desire to contact MANUFACTURER for any other reason, please refer to the address provided in the documentation for the SYSTEM.

6. Export Restrictions

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Chapter 12 Integrated PC/SC Smart Card Reader/Writer (Optional)

Signaling a major industry push towards stronger client security, Chip PC now offers thin clients with complete PC/SC PKI Smart Card solutions. Smart Cards, containing processing power and memory to store data, are often used as a form of identification and access. Organizations in fields such as healthcare, finance and government use Smart Cards to provide employees with access to secure buildings and confidential information and applications.



Figure 9: Xtreme PC with Built-in PC/SC Smart Card Reader

Xtreme PC (Models 6x52 & 5X52) can be ordered with a built-in PC/SC Smart Card Reader/Writer supporting PKI solutions.

These models include a slot for inserting the smart card.

With Chip PC smart card solutions same card is used for Windows Authentication in PKI environments.