COMPANY AND PRODUCT OVERVIEW

IGEL TECHNOLOGY
Thin Client Software & Hardware

IGEL TECHNOLOGY

A world leader in thin client solutions, IGEL Technology helps organizations improve the agility, efficiency, and security of their virtual desktop and application delivery systems. We produce a very wide range of thin clients, based on Linux and Microsoft Windows, allowing customers to access a very broad spectrum of server-based infrastructures and applications. We also offer our powerful and intuitive management software for easy deployment and administration of thin clients throughout any-size organization. Partnerships with industry leaders like Citrix, Red Hat, VMware, and Microsoft ensure that we provide the most up-to-date technology and trustworthy security to our clients. IGEL Technology has offices in Australia, Austria, Belgium, China, Germany, France, the Netherlands, Singapore, Sweden, Switzerland, the United Kingdom and the United States. Our award-winning, in-house R&D team is located in Augsburg, Germany.

IGEL UNIVERSAL DESKTOPS OFFERING GREAT FLEXIBILITY

The firmware that comes standard with IGEL Universal Desktops contains a great variety of integrated software tools, clients and protocols. These features allow users to directly access the greatest variety of centralized IT infrastructures. They include traditional server-based computing (SBC) environments (Microsoft Windows, Citrix and Linux) as well as virtual desktop environments (VMware, Citrix, Red Hat or Microsoft).

BENEFITS OF THE IGEL UNIVERSAL DESKTOPS AT A GLANCE:

► **Low investment costs:** no unnecessary hardware or software (modular design, management solution included at no extra cost)

► **Low operating costs:** energy-efficient hardware, an intuitive management solution, no licensing or update costs; long service life (free firmware updates up to 3 years after end-of-life for UD-series models), free 5-year warranty for the UD2, UD3, UD5 series

► **Greater security thanks to a locked-down system:** The USB ports can be selectively enabled to accept only certain peripheral devices. All IGEL thin clients support smartcard readers for secure two-factor authentication, personalization solutions or single sign-on (SSO) as well as selected USB token solutions.

► **Free comprehensive technical support, free updates and service** (during warranty period), **global network of certified IGEL partners**

► **Flexible deployment:** full connectivity for peripheral devices as well as centralized IT systems and Web/VoIP/multimedia applications

► **Future-ready investment:** high processor and graphics performance, large RAM and flash memory, continuously developed firmware including technology and security updates

► **Outstanding user convenience:** top-notch design and careful assembly, stable firmware, high performance due to direct access to server-based applications, virtual desktops and cloud based applications, no cooling fans mean no noise, minimal generation of heat

ZERO CLIENTS – THE IGEL WAY

The new IGEL Zero Clients for Citrix HDX, Microsoft RDS/RemoteFX and VMware Horizon View deliver a true zero client experience. At the same time they overcome typical zero client limitations you may know from other vendors, like e.g. inflexibility, missing manageability and no technical support.

IGEL delivers specialized zero clients without compromise. They are dedicated and optimized to one of the three leading virtualization solutions, and they include free technical support. Using the appliance mode the IGEL Zero Clients boot fast and directly into VDI sessions like Citrix XenDesktop or Horizon View.

Experience "zero touch deployment" through fast and rule based configuration at the roll out phase. Reduce the desktop management to nearly zero, by profile based, automated management of settings. For you this means zero local management efforts.

IGEL Zero Clients are future proof. Free firmware updates allow you to make use of the latest features. If at any time you decide to change your VDI solution you can continue to use your zero client hardware. An UD-Upgrade-License will enable your IGEL Zero Clients to connect to other leading VDI solutions.

BENEFITS OF THE IGEL ZERO CLIENTS AT A GLANCE:

► **Specialized zero clients** dedicated to either Citrix HDX, Microsoft RDS/RemoteFX or VMware Horizon View offering **rich user experience**

► **Low administration** efforts through zero touch deployment and zero local management

► **Affordable, cost efficient** desktop solution

► **Future proof** through free firmware updates and an **upgrade path** to other VDI solutions

► **Free 3 year hardware warranty**

Get your
FREE
evaluation unit
NOW

START YOUR 30-DAY EVALUATION NOW! WWW.IGEL.COM/EVAL

Many functions. One device.

SOFTWARE

IGEL UNIVERSAL DESKTOP CONVERTER (UDC) SOFTWARE

The Universal Desktop Converter (UDC) allows you to migrate your existing PC or old thin client hardware to a fully manageable IGEL Universal Desktop thin client-like device, capable of delivering hosted and virtualized desktops and applications powered by Citrix, VMware, Microsoft and Red Hat solutions. The UDC allows a step-by-step introduction of these technologies and minimizes the initial procurement costs for new client hardware.

UNIVERSAL DESKTOP CONVERTER (UDC) SOFTWARE

SYSTEM REQUIREMENTS
RAM: 1 GB
Flash- / HDD-Memory (IDE, USB or SATA): 1 GB
BIOS requirements: USB boot support, alternative: DVD-Boot support
Min. requirements Microsoft RemoteFX: CPU ≥ 800 MHz, SSE2 Support

THIRD PARTY HARDWARE MIGRATION
Acer Veriton N260G / N281G / N2110G
Advantech-DLoG MTC 6
DELL / Wyse C90LE / C90LEW / R50L / D50D
Fujitsu Futro S500 / S550 / S550-2 / S700 / S900
HP t5545 / t5565 / t5630w / t5735 / t5745 / t510 / t610
Samsung TC190 / TC240

LEGACY PC MIGRATION
Standard x86-compatible PC hardware

AVAILABLE COMPONENTS
UDC token (USB)
UDC-LX

SOFTWARE FEATURES
see Firmware table at the back[1]

HARDWARE COMPATIBILITY
see www.igel.com/hwdb

[1] The functionality available will depend upon the specifications of the original hardware device

INSTALLATION AND LICENSE DISTRIBUTION OF THE UDC

INSTALLATION
There are five ways of carrying out the installation:

Installation from DVD: ISO file from IGEL UDC or IGEL FTP server

Installation via USB: UDC2Stick from IGEL UDC or IGEL FTP server

UDC token installation
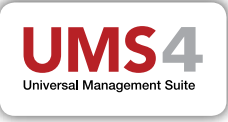
Windows Server 2003
Remote Installation Services

IGEL UDC Deployment Appliance "PXE Server" with web GUI
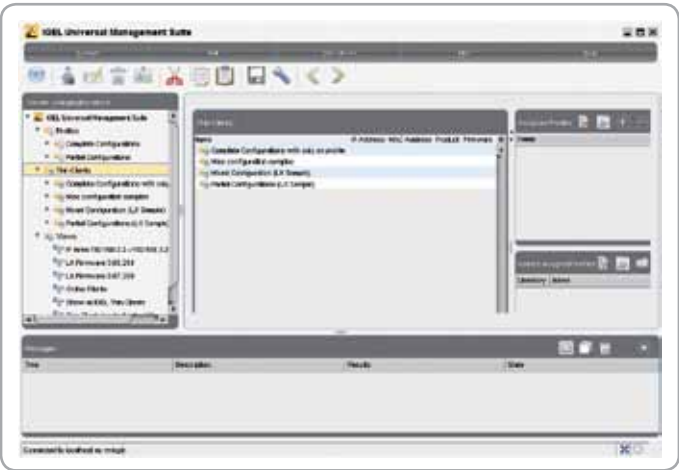
LICENSE DISTRIBUTION
In addition to the software, the UDC token also contains the license (SIM card), which alternatively can be distributed via the UMS server.

IGEL UMS server

IGEL UNIVERSAL MANAGEMENT SUITE (UMS) 4

UMS4
Universal Management Suite

With IGEL thin client computing, the total cost of ownership (TCO) of the desktop environment can be cut by up to 70%. A substantial portion of this potential for optimizing computing environments is due to powerful features of the IGEL Universal Management Suite, which comes standard with all IGEL units. It offers numerous local protocols, software clients, tools and security features, undergoes continuous development and refinement and sets the standard when it comes to secure and fast management of extensive thin client installations located across several countries/regions. The IGEL Universal Management Suite supports a wide variety of operating systems, databases and directory services, such as Microsoft Active Directory, making it very easy to integrate into existing installations. Furthermore, the IGEL Universal Management Suite also permits problem-free, compatible management of earlier IGEL models.

UNIVERSAL MULTIDISPLAY

The software solution IGEL Universal MultiDisplay allows to combine up to four Universal Desktop standard devices cost-effectively into one workstation with up to eight screens which can be remotely administered. The heart of the solution is the IGEL UD5 LX thin client which provides two monitor connections. With an integrable network card, it can be set as the master device and manage up to three Linux-based standard thin clients, which automatically configure themselves as satellites, each providing up to two additional monitors.

ADDITIONAL SHARED WORKPLACE FEATURE

The "Shared WorkPlace" feature, which can be optionally licensed, is an enhancement of IGEL's thin client software. It allows user-dependent configuration based on setting profiles created in the IGEL UMS and linked to the user accounts in the Active Directory. Typical applications for the Shared WorkPlace option are those workstations used for shift work or in call centers, where different staff members use the same device and need their own individual settings, such as for session types or mouse-button configuration for right/ left-handed operation. Another common use can be found in roaming environments, where users frequently switch workstations, such as in hospitals and at service/ticket counters, checkouts (POS) and customer reception areas. After a user has logged on, the Shared WorkPlace thin client automatically receives the appropriate configuration for that user from the UMS server, which itself retrieves it from the UMS database of individual and group profiles. These profiles can be readily assigned to users in the IGEL Universal Management console simply by drag-and-drop.

IGEL UMS HIGH AVAILABILITY EXTENSION

IGEL thin clients will boot up and function securely and reliably even if they aren't able to establish contact with the IGEL Universal Management Suite (UMS). In this case, they simply use the last locally saved settings. However, to ensure 100% availability of the UMS, the High Availability Extension offers the option of creating a redundant set of components, allowing both internal and external requirements, rules and regulations for failsafe operation of all systems to be met. In particular, in cases where there are separate user-specific configuration settings for a shared workplace, it's good practice to deploy this kind of failsafe design to ensure that all users of the same workstation can obtain their individual settings as needed. In addition, this extension enables load balancing between the individual UMS instances, allowing new settings to be distributed even in environments with more than 500 devices that are all booting up at essentially the same time. This functionality is available in the new UMS Version 4. To permit evaluation of the new extension, the new-version UMS contains five preinstalled test licenses. However, actual deployment of the extension requires payment of an extra fee.

UNIVERSAL CUSTOMIZATION BUILDER

Expand IGEL firmware yourself – easily and reliably! With the Universal Customization Builder (UCB), the firmware for IGEL Universal Desktop thin clients can easily and reliably be expanded and adapted to meet your needs. For example, you may choose to install local device drivers or special applications. You can even set important Windows registry keys – without detailed knowledge of Shell or Windows scripting!

HARDWARE SERIES

NEW

HARDWARE	IZ1²	IZ2 / UD2	IZ3 / UD3	UD5	UD9 (21")	UD10 (24")
CPU	TI TMS320DM8148 Cortex A8, 1 GHz	VIA Eden ULV 1 GHz	VIA Eden X2 1 GHz (Dual-Core)	Intel Celeron 847 1.1 GHz (Dual-Core)	Intel Atom N270 1.6 GHz	VIA Eden X2 1 GHz (Dual-Core)
POWER CONSUMPTION Idle | Sleep	7 W | -	9 W | 2 W	11 W | 1 W	11 W | 1 W	38 W | 2 W	31 W | < 1 W
FLASH	2 GB	2 GB	2 GB (LX) | 4 GB (W7)	2 GB (LX) | 4 GB (W7)	2 GB (LX) | 4 GB (W7)	2 GB (LX) | 4 GB (W7)
RAM	1 GB DDR3	1 GB	1 GB (LX) | 2 GB (W7) DDR3	1 GB (LX) | 2 GB (W7) DDR3	1 GB (LX) | 2 GB (W7)	1 GB (LX) | 2 GB (W7) DDR3
VIDEO MEMORY	128 MB	64 MB – 256 MB	128 – 256 MB	128 – 256 MB	32 – 128 MB	128 – 256 MB
MAX RESOLUTION	Dualview 1920 x 1200	Dualview 1920 x 1200	Dualview 1920 x 1200	1x DisplayPort 2560 x 1600 1x DVI-I / Dualview 1920 x 1200	Dualview 1920 x 1080	Intern (FullHD) 1920 x 1080 1x DisplayPort 2560 x 1600
WARRANTY	3 years	3 / 5 years	3 / 5 years	5 years	3 years	3 years
SOFTWARE MAINTENANCE (AFTER EOL)	0 years	0 / 3 years	0 / 3 years	3 years	3 years	3 years
IZ HDX	IZ1 HDX	IZ2 HDX	IZ3 HDX			
IZ RFX	IZ1 RFX	IZ2 RFX	IZ3 RFX			
IZ HORIZON		IZ2 Horizon	IZ3 Horizon			
UNIVERSAL DESKTOP (UD) LINUX		UD2 LX	UD3 LX	UD5 LX	UD9 LX UD9 LX Touch	UD10 LX UD10 LX Touch
UNIVERSAL DESKTOP (UD) WES 7			UD3 W7	UD5 W7	UD9 W7 UD9 W7 Touch	UD10 W7 UD10 W7 Touch

² System-on-Chip

Many functions. One software.

FIRMWARE

	Operating Systems	Local and Remote Management (UMS)	Fail-safe Firmware Update	Power Management (IZ1 no Suspend-To-RAM)	SNMP	PPTP	L2TP	Third Party VPN: Cisco / NCP / Genucard	PPPoE (DSL via onboard LAN)	Local web browser	Citrix XenDesktop / HDX / ICA / Appliance Mode	Microsoft RemoteApp / RDS / RDP / RemoteFX	VMware Horizon View / Appliance Mode	X-Access (XDMCP)	Ericom PowerTerm Terminal Emulation (Activation required)	Native IBM 5250 Emulation	2X	Leostream	NoMachine NX	Virtual Bridges VERDE VDI	Red Hat Enterprise Virtualization for Desktops	ThinLinc	Line Printer (LPD)	Internet Printing Protocol (IPP)	Windows Shared Printer	ThinPrint (not IZ1)	Multimedia Redirection	Java SE Runtime Environment (not IZ1)	Java OpenJDK Runtime Environment (only IZ1)	PDF Reader	SAP GUI	Extended USB Management	.NET Framework	Voice over IP (Ekiga)	Media Player
IZ HDX	Linux	x	x	x		x		x	x	x	x															x	x	x	x			x			
IZ RFX	Linux	x	x	x		x		x	x	x		x														x	x	x	x			x			
IZ HORIZON	Linux	x	x	x		x		x	x	x			x													x	x	x				x			
UNIVERSAL DESKTOP (UD)	Linux	x	x	x		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x³	x		x		x		x	x³
UNIVERSAL DESKTOP (UD)	Windows Embedded Standard 7	x	x	x	x	x	x	– / x / –	x	x	x	x		x	x				x		x				x	x	x	x		x	x	x	x	x	x

A 2-year thin client hardware warranty for end customers (after date of delivery) comes as standard. After an online registration this warranty will be extended for 3 years to a 5-year warranty (IGEL UD2, UD3, UD5), or for 1 year to a 3-year warranty (IGEL UD9, UD10, IZ1, IZ2, IZ3). The warranty upgrade does not cover any additional hardware options.

³ Optional CodecPack is required for UD-LX models.

thin clients · development · services · solutions

Many functions. One device.