



# Perfect Pairing

## IGEL and LG All-in-One Thin Clients LG's extremely well-built and efficient VDI thin client is now

being shipped with IGEL OS preinstalled. A perfect pairing of technology.

▶ 23.8" Full HD IPS Display

▶ IEC60601, CE MDD

- Read only OS



Quad-core Processor Fanless Design,

Dual-band RFID

Ergonomic Stand



white color exposes dust

& other contaminants





Designed for a demanding and critical environment



**NOTABLE OFFERINGS** 

### pinpoint which component failed. All that is required to

Single Unit

replace the unit is to unplug the existing unit and plug in a new one – an operation that doesn't require assistance from an IT specialist and should take less than a minute or two, even for those who are doing it for their first time. Licensing IGEL OS is licensed on a perpetual basis and is available for free for demo and trial purposes. The license, offered as IGEL

Workspace Edition, includes

If there are any issues with the device, the system can be

replaced as a single unit; no

time is wasted trying to

## the IGEL Universal

MAL

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Management Suite software with high availability option, and a REST API. **Installing and Configuring IGEL** 



**Preloaded OS** 

LG offer a bundle that would

Thin Clients based on

customer's request. It

supports all major VDI

include flashing IGEL OS on LG

protocols and requires minimal hardware resources. IGEL was founded in Germany in 2001 and is one of the most established and successful VDI endpoint OS and client software suppliers and one of the largest with over 4 million VDI clients in use, by over 17,000 companies worldwide. Security IGEL OS was designed with security in mind. It has a very small code footprint to minimize the attack surface, and secure read-only firmware

end-to-end cryptographic signature verification process to ensure the system's integrity. This "chain-of-trust" starts from the UEFI boot up all the way to the destination VDI host. We used the instructions from IGEL to set up our environment and found the process of installing it

to prevent tampering and

improve security. It also has an

We downloaded IGEL Workspace by going to:

https://www.igel.com/software-downloads/.

**OUR TEST** 

## **Setting Up a Horizon Connection** After the system rebooted, we clicked the wrench (settings) icon on the left side of the taskbar, and clicked Sessions > Horizon Client > Horizon Client Global. From here, we configured our Horizon

straightforward, quick, and easy to do.

session to use VMware Multimedia Redirection, Real Time Audio Video (RTA), and the Virtualization Pack Skype for Business. **Read More** 

Devices running IGEL OS can be used with Universal Management Suite (UMS), a tool that manages

multiple VDI clients from a single portal. UMS is capable of managing and controlling over three

### hundred thousand IGEL devices from a single pane of glass. UMS supports IGEL Cloud Gateway (ICG), a feature that allows it to work with IGEL located outside the corporate network (e.g., from home). With more and more companies embracing a "work-from-anywhere" philosophy, ICG is a huge advantage.

The Configuration pane has many different

configure VDI connections), Accessories, User

It is common, even in a healthcare environment,

to have multiple monitors. To test how well the

device would handle a dual-monitor setup, we

hooked up a second 4K monitor to the client

drop-down menus, including Sessions (to

Interface, Network, Devices, Security, and

System. We explored some of these areas.

**Dual Monitor Configuration** 

through its DisplayPort.

We played a high-definition

on the virtual desktops. The

video from a web browser

CPU on the client reached

14Mbps of data was being

transferred. The audio and

IGEL supports Unified Communication and

Collaboration (UCC) applications such as Zoom,

WebEx, and other audio/video communication

products in three different ways. You can run

them natively on the device, they can run in the

virtual desktop, or they can be redirected from

the virtual desktop to run natively on the client.

IGEL advertises the device as being able to work with VMware Horizon Blast, CITRIX

when adding a connection, there was a wide

HDX, PCoIP, and RDP, but we found that

variety of other protocols available.

video played flawlessly.

**IGEL UCC** 

**Read More** 

**Other Remote Protocols** 

54% and more than

**Universal Management Suite (UMS)** 

**All-in-One Thin Client Configuration LG All-in-One Thin Client Usability** To get a better feel for the completeness of To test the LG all-in-one thin client, we connected it to our network via a Cat 6 IGEL, we explored its menu. We first accessed the device's settings by clicking the settings cable through the device's RJ45 port. The (wrench) icon in the lower left-hand corner of client was connected via a 1GbE network the toolbar. with a single switch to a server that was

## monitors in half-scale mode at the same time. To monitor the resource usage of the client and the virtual desktop, we used the ControlUp Real-Time

We played different videos on each of the

Console. Both videos played without any jitter and the ControlUp showed that only about 45% of the client's CPU and 75% of its memory was being used. The network bandwidth was 22Mbps.

hosting the virtual desktop. We

was present.

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monitored the network during our

testing to ensure that no other traffic



**Testing a Cloud-Based GPU Enabled Virtual Desktop** 

on the all-in-one thin client as pauses or disruptions. The client's CPU usage was rather we had on a local system. low at 3%, but the network reached 24 Mbps. **IGEL FastPass** 

**Screen Shadowing** 

We then brought up a CAD

NX. We were able to

in real-time without any

model of an engine in Siemens

manipulate, rotate, and slice it

Following the FastPass instructions that were emailed to us, we installed a UMS remote console on a local Windows machine. The UMS management platform is hosted by IGEL in a public cloud; we just needed to supply the information for the remote console to connect to it. **Read More** 

Screen shadowing is a valuable feature as it allows

you to see exactly what the user is seeing on their

device, from the UMS console. This is extremely

helpful for IT support staff when helping users

with issues that they may be having.

For our last GPU test, we used

Google Earth. The client's CPU

usage was 5% and the network was 16Mbps. We had the same

experience using Google Earth

63

We were impressed with the

top-notch, and the thought that went into the device by LG is quite apparent with features such as a screw-in power connector, built-in RFID reader and 4K DisplayPort. are fantastic for providing the feel of high-end computing gear, especially in demanding use cases like healthcare.

the LG all-in-one thin clients. The fit

and finish of the device were

CONCLUSION found that it could handle

monitor didn't faze it. We found RAM on the LG to run applications natively on them. experience and allow greater density on the hosts.

to work with, even with its security-first mantra. Using UMS for management and IGC makes IGEL devices easy to manage, even for users who are outside of the corporate network. Finally, FastPass allows potential customers to see the power of the UMS without having to install it.

We have reviewed other

IGEL-powered devices and have

always found them to be easy

that we could use the CPU and This can provide a better user flexibility for end-users while allowing greater virtual desktop Learn More from IGEL and LG

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G Business Solutions

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performance and build quality of

Overall, these all-in-one thin clients

We pushed the device hard and anything that we threw at it. Using cloud-based GPU-enabled virtual desktop

applications and a secondary 4K

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