

Device: HD4 Zero Client

SUNDE HD4 is a VDI (virtual desktop infrastructure) device which enables users to execute a desktop operating system within a virtual machine (VM) running on a single computer or server. SUNDE HD4 in desktop virtualization offers advantages over the traditional thin client, in which every computer operates as a completely self-contained unit with its own operating system, peripherals, and applications. SUNDE HD4 is also referred to as "zero client" because, unlike traditional thin client, it has no CPU, no memory, no operating system, no drivers, no software and no moving parts.

Software: vPoint Server

SUNDE vPoint Server is a software provided free of charge. It is the central component of the SUNDE VDI architecture, connecting desktop virtual machines under SUNDE VDI protocol and delivering a rich end-user experience that includes full screen video, multi-media, user personalisation and secure desktop roaming. It works along with Virtual Box to provide a simple unified management console, with tabs for endpoint users, letting you quickly get a high-level overview and then easily drill-down to manage any component in detail.

SUNDE Zero Client Benefits

Low Cost

- Slash hardware costs by 75% with one PC/server shared by multiple users.
- Achieve higher utilisation rates with centralised hardware upgrades and software licensing.
- Reduce power consumption with 5 watts per user.

Easy Management

- Increase productivity of IT staff to support more users and workstations.
- Minimize unplanned downtime for workstations with centralised control over desktop recovery, patching and updates.
- Free to IT staff from travel for trouble-shooting workstations with remote control at the server end.

High Reliability

- Strong security management, monitoring and control over clients and network transmissions ensure compliance with data security and records retention policies.
- With no OS or even a processor capable of running software, provide complete secure endpoint that is immune to viruses and malware.
- Low maintenance and long life span of 10 years.

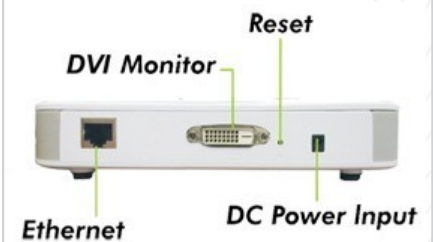
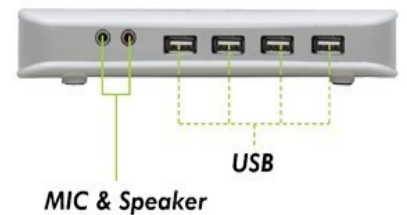
Large Flexibility

- Small portable size, free up valuable workspace at the desktop.
- Great productivity from anywhere, anytime access to the virtual desktop, no matter if the user is in the office or at a remote site.
- With every login to the virtual desktop, the user can resume work with all applications and files still in place. Reduce downtime from shorter turn-around of break-fix or lengthy reboot and resume cycles with provision of new desktop.

Feature	Function	Benefit
Host optimisation video acceleration	Video content played through standalone media players or embedded into web	Users will experience PC-quality video without excessive host-side
Independent Virtual Machine	Each user gets their own virtual workspace which can not be accessed by other users whilst a common shared space can be created on the server for all users.	Bring high security to every user with a self-own private workspace as well as increased productivity with a shared data centre.
Desktop Personalisation	Allow administrator at anytime to tailor virtual desktops for use by users or in process control flexible desktop provisioning. Each desktop virtual machine can be customized with specific settings, productivity applications.	Allow each user to access virtual desktop tailored to be needs of specific engagements and customize with specific settings and applications as he actually needs.
Virtual Desktop templates and snapshots	Administrator can use virtual desktop templates to speed the deployment and enforcement of standard desktop configurations and policies and periodically create snapshots for virtual machines and refresh a virtual machine to a favourable state of an early date.	Easy provisioning and management allows rapid deployment of new users and workstations, reducing user downtime in the event of a desktop corruption and getting new users up and working faster.



Power supply	input AC110V ~ AC240V 50/60 Hz	
Power consumption	5W	
Connections:	Front Panel 4× USB 2.0 ports, 1× Power LED/switch, 1× microphone jack, 1× speaker jack	Rear Panel 1× 5V DC in, 1× DVI monitor, 1x RJ45 Ethernet, 1× reset key
LED indicators	power, network link, and network activity	
Display resolutions	Normal display 640*480, 800*600, 1024*768, and 1280*1024	Wide screen 1280*720, 1280*800, 1366*768, and 1440*900
Networking	10/100 Mbps Switched Ethernet	
Audio	12 bit stereo audio input / output via 3.5mm stereo jacks	
Internal Hardware	all solid- state design. No moving parts, no fans, no local user storage. Kernel and firmware are updatable	
Multimedia Support	hardware-accelerated 2D graphics, hardware-accelerated video support for most media formats on stand-alone media player applications and browser-based video play at full frame rates.	
Colour Depth	24 bit	
Screen Orientation	Only normal horizontal at present	
Supported USB Peripherals	Support almost all USB devices such as, keyboard, mouse, memory device, webcam, printer, scanner, U key, USB converter, etc.	
Supported Operating System	Supports all Windows Operation Systems	
Supported Cloud Computing platforms	Can not access Cloud Computing platforms directly.	
Max. No. of users per OS	depends on the configuration of the host PC	
PC configuration	see recommended hardware configuration guide at sunde.net/support	
Software	SUNDE vPointServer with SUNDE-VDI Protocol	
Reliability (MTBF)	>100,000 hours (calculated using Bellcore Issue 6 TR-332, Case 2, Part I at 40°C)	
Certifications	FCC class B, CE	
Environmental	0-40 degrees Celsius; 10-85% relative humidity (non-condensing); No moving parts permits use in high dust/ particulate/ vibration environments	
Size (L*W*H)	180mm*130mm*32mm/ 7.1 inches*5.1 inches*1.3 inches; shipping size (includes power adapter, documentation, packaging, etc): 265mm*195mm*45mm/ 10.4 inches*7.7 inches*1.8 inches	
Weight	154g/ 0.34lbs, shipping weight (includes power adapter, documentation, packaging, etc): 0.7kg/ 1.55lbs	
Kit contents	Each HD4 kit includes an access device, power supply, quick install guide. SUNDE vPointServer software CD, installation & user guide can be downloaded at sunde.net/support ; VESA-compliant monitor mounting bracket is optional for an additional cost. PC, monitor, keyboard, mouse, speakers, microphone, and other peripherals are NOT included and must be purchased separately.	



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