

Choose the Right Solution for Your Needs

PC Refresh

			
Model	L130	L230	L300
High availability login	manual	manual	automatic
Interactive user experience	good user experience for basic task-worker needs	good user experience for basic task-worker needs	“native PC” experience with smooth scrolling and fast screen updates
Video performance	small window only	small window only	Full screen video through media player and browser embedded video (including Flash)
Peripheral connectivity	no USB	USB 1.1 (1 port)	USB 2.0 (2 ports)
Keyboard & mouse support	PS/2	PS/2	USB
Maximum screen resolution	1440x900 or 1280x1024 @ 16-bit color	1440x900 or 1280x800 @ 24-bit color	1920x1080 or 1680x1050 @ 24-bit color
Speaker port	stereo out	stereo out	stereo out
Microphone port	no	yes	yes
Power supply required	yes, 5VDC included	yes, 5VDC included	yes, 12VDC included
Nominal power	3 watts	3-5 watts	3-5 watts
Access device size	115 x 115 x 26 mm	115 x 115 x 26 mm	115 x 115 x 30 mm

L-series and M-series Recommended Hardware

NComputing deployments vary based on the type of applications, usage and infrastructure. To determine the appropriate system configuration for deployment, NComputing recommends a pilot to measure concurrent usage, application load, and bandwidth load over a period of time. For more information see “vSpace Guidelines for Scaling Deployments” at www.ncomputing.com/support.

A minimum recommended system to evaluate deployments is a dual core or better processor (or two virtual CPUs) with 2GB of memory and a single disk/spool (no RAID required).

L-series

The L-series client devices connect to a shared computer via standard ethernet networks. That way, users can be any distance from the shared computer. Up to 100 L-series users can share a single operating system or virtual machine. L-series access devices are sold individually, and include vSpace® Server virtualization software.

M-series

The M-series offers an Ethernet connection to a 3-in-1 thin client kit. It enables full screen video streaming capabilities, USB support and up to 45 users per PC. The M300 is ideal for workgroup computing: classrooms, computer labs, training rooms, libraries and small business offices.

X-series

The X-series PCI direct connect client device allows for up to 11 eleven users to simultaneously share a single PC at a fraction of the cost of a typical PC. Each user enjoys a rich Windows or Linux experience including multimedia with sound and full-motion video.





U-series

The U-series virtual desktop client device combines affordable desktop computing with plug and play simplicity. By utilizing the included USB cable to power this device and connect to the shared host computer, the U170 virtually eliminates cable clutter. The U-series is ideal for kiosks, digital signage, schools and can even be used as a compact VESA-mountable docking station for your laptop or netbook.

Industry Awards



PC Expansion

				
Model	M300	X350	X550	U170
Connection method	Ethernet & Direct Connect	PCI card	PCI card	USB 2.0
Description	3-user kit with vSpace Server and 3 client devices*	3-user kit with PCI card, vSpace® and 3 access devices*	5-user kit with PCI card, vSpace® and 5 access devices*	1-user kit with vSpace® and 1 USB-based access device*
Maximum users per host system	45	7 (2 cards x 3 + PC)	11 (2 cards x 5 + PC)	10 (9 U170 virtual desktops + host PC)
Size of shared computer	Any**	Needs 1 or 2 low-profile or full-height PCI slots	Needs 1 or 2 full-height PCI slots	Any size: with external USB 2.0 ports
Maximum screen resolution	1440x900 or 1280x1024 @ 24-bit color	1440x900 or 1280x800 @ 16-bit color	1440x900 or 1280x800 @ 16-bit color	1680x1050 or 1600x1200 @ 32-bit color
Streaming video support	Numo 2 enables full screen video at all resolutions	Good video streaming to 1024 x 768	Good video streaming to 1024 x 768	Good video streaming to 1024 x 768
Mouse & keyboard ports	USB	PS/2	PS/2	USB
Microphone port	Yes	No (use PC USB port)	No (use PC USB port)	Yes
USB 2.0 Peripheral Port	Yes	No (use PC USB port)	No (use PC USB port)	Yes
Client connection	Ethernet to large client, direct connect to small clients *	Direct cable to PCI card*	Direct cable to PCI card*	USB cable* (may use hubs)
Maximum distance from PC	100 Meters to large client 5 meters to small client	10 meters (Cat 6 STP) 5 meters (Cat 5e UTP)	10 meters (Cat 6 STP) 5 meters (Cat 5e UTP)	5 meters (via USB cable) 20 meters max (with powered USB hubs)
Access device size	Large client: 160mm(w) x 120mm(d) x 35mm(h) Small client: 120mm(w) x 99mm(d) x 33mm(h)	119mm(w) x 27mm(d) x 82mm(h)	119mm(w) x 27mm(d) x 82mm(h)	125mm(w) x 80mm(d) x 30mm(h)
Nominal power	~2 watts per user	1 watt per seat	1 watt per seat	2 watts per seat
vSpace Server run on Hypervisor (VM)	Yes	No	No	No

X-series Minimum Recommended Hardware¹

Users	CPU	Memory
1-3	2.4GHz or any dual core	2 GB
4-7	3.0GHz or any dual or quad core	3 GB
8-10	3.0GHz or any dual or quad core	3+ GB
11 or more	n/a	n/a

U-series Minimum Recommended Hardware¹

Users	CPU	Memory
1-3	any dual core	2 GB
4-7 ²	dual or quad core ³	3 GB
8-10 ²	dual or quad core ³	3+ GB
11 or more	n/a	n/a

¹ These are general guidelines. Always test your applications first before deploying.

² When installed on Windows XP, only 5 U170s can be supported. See www.ncomputing.com/mslicensing for specific use cases and licensing requirements.

³ More than 4 users requires dual Enhanced USB controllers.

* Cables not included

**Please see "vSpace Guidelines for Scaling Deployments" at www.ncomputing.com/support