NComputing™ | At-a-glance

The Benefits of NComputing

- Triple the number of PCs you can afford without increasing your budget
- Reduce maintenance and support costs by 75%
- Reduce power and cooling requirements by 90%
- Reduce device theft and loss
- Centrally stored data increases security

A Green Solution

NComputing virtual desktops drastically reduce e-waste due to their small size and longer service life.

NComputing Virtual Desktop vs. PC Scorecard

- 1-5 watts usage
  vs. 150 watts usage
- 10 year service life
  vs. 3 year service life
- 0.34lbs of e-waste
  vs. 25lbs of e-waste

NComputing, Inc. was founded with the goal of making desktop computing affordable for everyone, and is redefining the economics of desktop computing.

NComputing is the fastest growing desktop virtualization company with 3 million virtual desktop solutions deployed in 140 countries. The company's award-winning, patented technology lowers desktop computing costs, improves manageability, and reduces both energy consumption and e-waste. It is the perfect solution for leveraging the power and potential of PCs and cloud computing.

The NComputing solution takes advantage of the fact that today's PCs are so powerful that the vast majority of users only need a small fraction of the computing capacity. NComputing taps this unused capacity so that it can be simultaneously shared by many users. Each user's monitor, keyboard, and mouse are connected to a small and highly reliable NComputing virtual desktop, which is then connected to a server. NComputing's award-winning vSpace® Server desktop virtualization software provides each user with a rich multimedia desktop experience and their own computing session.

NComputing Cuts Computing Costs

Server virtualization technologies have been used for years to simplify server infrastructure and reduce capital and operating expenses. Now, the same concept is being applied to end-user computing by virtualizing today's powerful desktop PCs. The total cost of acquiring, managing, and replacing hundreds of desktop PCs (often thousands) is very high. That's where NComputing virtual desktops can help.

NComputing enables each end user to have their own computing session without having to dedicate a desktop PC at each user's desk. How? By virtualizing the session and hosting it on a centrally located host server. Depending on the configuration, a single server machine can host up to 100 simultaneous users.

NComputing Desktop Virtualization Overview

NComputing offers more than simply a physical virtual desktop. With its end-to-end desktop virtualization solutions including software infrastructure, desktop virtualization protocol and hardware, NComputing provides a unique price: performance ratio that is unparalleled in the market and provides an unparalleled end-user experience.

NComputing's end-to-end solution delivers a high-end virtual desktop experience at a third the cost of other thin client vendors. The solution is made possible through NComputing's award winning technology delivered at the server, client, and protocol layers explored below.

NComputing also offers Numo System-on-Chip technology that enables high performance, low cost thin clients. The Numo architecture is fully optimized to provide a complete end-to-end virtual desktop that includes vSpace Server, UXP our transport protocol and the client devices that feature the individual Numo devices.

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Key Features & Benefits

- 100 user support- delivers new levels of scale and savings
- Automated configuration management- speeds device deployment
- Remote management
- High availability server features

vSpace® Server

vSpace Server, NComputing's virtualization software, divides a computer's resources into independent virtual workspaces providing multiple users simultaneous access to a single Windows or Linux operating system. It also offers flexible OS support, secure desktop roaming, centralized management, full screen video support, and broad peripheral support. Experience a rich PC experience for every user, at a fraction of the cost of a typical PC solution.

Key Features & Benefits

- Access virtual desktops from any Windows device from any location with a LAN or WiFi connection
- Reduces PC administration, upgrade and replacement costs
- Supports Windows XP & Windows 7 client OSes
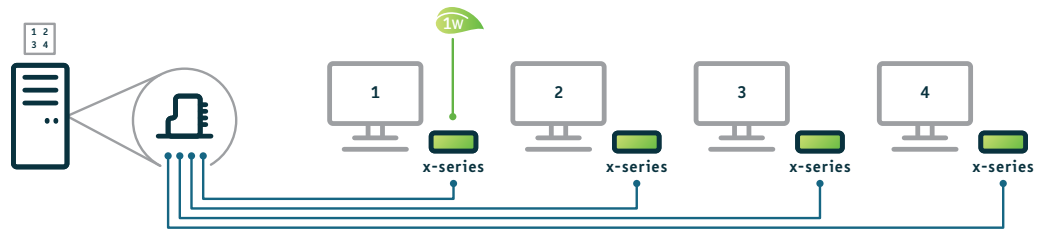- Per client configuration profiles

vSpace® Client (Ethernet Connect)

vSpace Client for Windows enables any Windows-based PC, laptop or netbook computer to remotely access virtual desktops on your vSpace server. Distribute the benefits of centrally managed virtual desktops to more mobile users with the simple to use, powerful and affordable vSpace clients.

PC Expansion

Key Features & Benefits

- Share one PC with up to eleven users
- Cuts hardware and support costs by up to 75%
- Easy to set up, maintain, and secure
- Energy efficient (1 watt per user)
- Supports standard applications including multimedia and full-screen video
- Includes powerful vSpace® server software

X-series (Direct Connect)

The X-series connects through a PCI card installed into the shared PC and delivers exceptional multimedia performance with unmatched CPU and energy efficiency. The X-series is ideal when the users are in the same room as the shared computer.
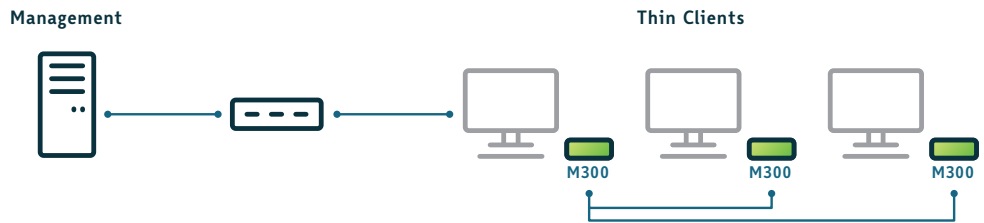
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Key Features & Benefits

- Share one host with up to 45 users
- 3 client devices per kit
- USB mouse, keyboard, and peripheral support
- Powered by NComputing's Numo2 SoC innovation
- Energy efficient (~2 watts per user) Full screen video streaming
- One LAN port and power plug for 3 users

M-series (Ethernet Connect)

The M300 represents another high performance, low cost computing solution from NComputing, providing a simple, powerful and affordable PC Expansion alternative. As the industry's first 3-in-1 thin client offering, the M300 delivers a rich PC experience at 1/3 the cost of PCs and typical thin clients. With this breakthrough, NComputing uniquely delivers innovation that multiplies the value customers can expect from thin clients in a virtual desktop environment.
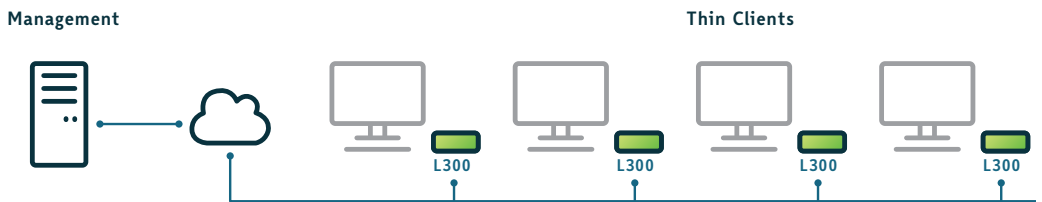
Management   **Thin Clients**

M300   M300   M300

PC Refresh

Key Features & Benefits

- Share a single operating system with up to 100 users
- Includes vSpace Server software
- Powered by NComputing's Numo SoC innovation
- 3-5 Watts per user
- 2 USB 2.0 ports (L300)
- 1920x1080 screen resolution (L300)
- Full screen video streaming

L-series (Ethernet Connect)

The L-series virtual desktops connect to a shared server over a standard Ethernet network. Desktops are streamed to users over the network and provide rich full-screen, full-motion multimedia playback; transparent USB redirection and unparalleled peripheral support. Up to 100 users can share a single physical computer or virtual machine. L-series devices are sold individually, and include vSpace virtualization software.

Management   **Thin Clients**

L300   L300   L300   L300

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Industry Awards

	PC EXPANSION		PC REFRESH
PRODUCT FAMILY	X-Series	M-Series	L-Series
MODEL	X350, X550	M300	L300
DESCRIPTION	3 or 5 user kit with PCI card, vSpace Server and client devices*	3-user kit with vSpace Server and 3 client devices*	Single independent client device with vSpace Server
MAXIMUM USERS PER HOST PC	7 or 11 (2 kits + PC)	45	100
FEATURES OF HOST PC	Needs 1 or 2 low-profile or full-height PCI slots	Any**	Any**
MAXIMUM SCREEN RESOLUTION	1440x900 or 1280x800 @ 16-bit color	1440x900 or 1280x1024 @ 24-bit color	1920 x 1080 or 1680 x 1050 @ 24-bit color
STREAMING VIDEO SUPPORT	Good video streaming to 1024 x 768	Numo 2 enables full screen video at all resolutions	Numo enables full screen video at all resolutions
MOUSE & KEYBOARD PORTS	PS/2	USB	USB
MICROPHONE PORT	No (use PC USB port)	Yes	Yes
USB 2.0 PERIPHERAL PORT	No (use PC USB port)	Yes	Yes (2)
CLIENT DEVICE CONNECTION	Direct cable to PCI card	Ethernet to large client, direct connect to small clients*	Ethernet
MAXIMUM DISTANCE FROM PC	10 meters (Cat 6 STP) 5 meters (Cat 5e UTP)	100 Meters to large client 5 meters to small client	100 Meters
POWER SUPPLY REQUIRED	No	Yes (1 per kit of 3)	Yes
NOMINAL POWER	1 watt per user	~2 watts per user	3-5 Watts per user
HIGH AVAILABILITY	No	Yes	Yes
AUTO LOG-IN	Yes	Yes	Yes
VSPACE SERVER RUN ON HYPERVISOR (VM)	No	Yes	Yes

* Cables not included
** Please see Minimum Recommended Hardware

See www.ncomputing.com/support vSpace Host Scaling Guidelines for information on choosing the host PC.

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