NComputing™

M300 3-in-1 Thin Client Kit for Virtual Desktops

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.

The M300 provides superior graphics and full screen video streaming capabilities, USB support, the highest number of users per host PC, and Ethernet connectivity—all at a very affordable price. The economics improve even more with no annual license fees, multiple users on a single LAN port and with a single power plug, and vSpace® Server's inherent ability to run multiple users on a single operating system or within a single hypervisor. Across the board, an M300 deployment provides a superior PC alternative that reduces acquisition, deployment, and management costs.

The M300 is ideal for workgroup computing: classrooms, computer labs, training rooms, libraries and small business.

Simple

NComputing's M300-based virtual desktop solution was built to be simple to deploy, operate, and manage. For most customers, an M300 environment should take just hours to deploy; other VDI solutions can take days or longer. All hardware, software, and protocol components were architected to work together, to operate seamlessly, and to be managed by either IT professionals or by those with less IT experience. The M300, like all NComputing client devices, are stateless, robust, solid-state devices that include automatic updates and work with standard operating systems and applications.

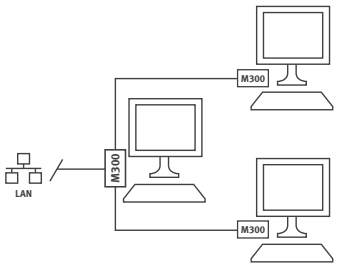
Incredibly Powerful

The M300 was built to provide a high-quality multimedia desktop PC experience in a highly efficient and powerful footprint, driven by the innovative NComputing Numo System-on-Chip (SoC) and the vSpace Server software. The Numo SoC is designed specifically for thin client computing, enabling a high performance user experience with standard Windows or Linux releases. The vSpace Server software enables up to 45 users to be hosted on a single operating system instance and on a single host PC. Software applications run simultaneously and independently on each virtual desktop and users don't even know that they are sharing a PC. And the power extends to manageability with easy centralized control and deployment of session profiles.

Affordable

With the power and 3-in-1 capability of the M300 thin-client and the improved scalability of the vSpace Server software, customers can drive dramatic reductions in cost per seat, in management overhead, and in required network and server infrastructure. With the M300, customers easily lower cost of acquisition by 75%, energy costs by as much as 90%, networking costs by 67% and support costs by up to 75%—with no compromise in the quality of the computing experience for users. NComputing devices are also architected and built to be green: they have no moving parts, no fans and use only a few watts per user. Overall, IT budgets go further with NComputing.

Key Features & Benefits



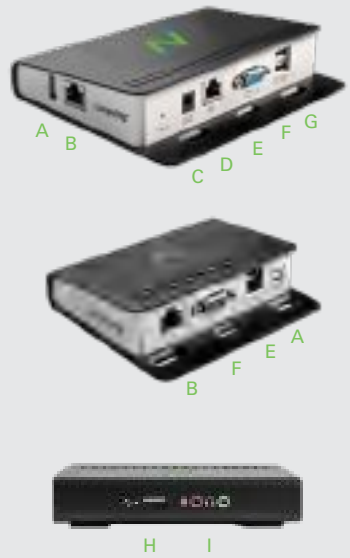
- Each M300 kit includes 3 client devices*
- Share one PC with up to 45 users
- Ethernet Connected
- Powered by Numo
- USB keyboard and mouse
- USB 2.0 peripheral support
- Microphone & Audio out
- Energy-efficient (typically 2 watts per user)
- Slash PC hardware and support costs by up to 75%
- Powerful vSpace® Server desktop virtualization software included
- Easy to set up, maintain, manage and secure
- Compact and reliable (no fans or disks)
- Remote management software included

Feature	Function
Up to 45 Users per Host	Fewer PC's to manage and lower computing costs per user
Ethernet Connected	Connect at distance with Ethernet.
Numo 2 SoC	Second generation Numo device provides full screen video streaming
USB Support & Microphone	Keyboard, Mouse and USB 2.0 peripheral support. Microphone.
vSpace Server	Simple to install, easy to configure and no complicated hypervisors (nor their annual license fees) to manage, but if desired vSpace runs great on a hypervisor.
Remote Management	NC Console support for remote (LAN) management & push configurations

M300 Desktop Virtualization Kit

Hardware

Kit contents	M300 Kit includes three M300 client devices*, power supply with power cord, vSpace Server software installation CD/license and User's guide, Quick Install Guide and VESA screws. **
Size	Large client 160mm(w) x 120mm(d)x 35mm(h) Small client: 120mm(w) x 99mm(d) x 33mm(h)
Weight	M300 large client device: 0.21 kg / 0.46 lbs M300 small client device: 0.12 kg / 0.26 lbs
Kit Shipping Weight	0.96 kg or 2.1 lbs ((includes 3 client devices, power adapter, documentation, etc.)
Power supply	Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A Nominal power consumption: ~6 W (without peripheral USB devices)
Front LED indicators	Large Client: Power: connection to power supply LAN: connection to network green, blinks with traffic Small client: Good connection to large client
Connection to Host	10/100 Mb/s switched Ethernet (1 Gb connection to host recommended)
Connection between large and small clients	Add Cat 5/6 STP cable up to 5 meters between the large client and the smaller two clients. If USB 2.0 support is desired on the small client add USB A/B cables
Video Resolution	from 800x600 to 1440x900 up to 24-bit color support
Audio	Stereo output via speaker port
Microphone	Microphone audio input via port
USB Mouse & Keyboard	Stacked USB ports support Mouse and Keyboard devices (HID devices)
USB 2.0	USB 2.0 port for peripheral support (USB port on the front of device. Must add USB A/B cables to enable support)
Internal HW	Numo2 System-on-Chip with SDRAM and flash Solid-state design, no moving parts, no fans, no local user storage Zero client: Embedded NComputing firmware (no local user OS)
Reliability	Reliability (MTBF) >250,000 hours (calculated using Bellcore Issue 6 TR-332, Case 2, Part I at 40°C)
Certifications	FCC Class B, CE, KCC and RoHS compliant
vSpace User Support	Maximum number of users per host PC is 45



M300 Client Devices

- **A:** USB Extension A/B
- **B:** Direct Connect Port (RJ45)
- **C:** Reset
- **D:** Power Connector
- **E:** Ethernet RJ45 Port
- **F:** Video Out
- **G:** USB Keyboard and Mouse
- **H:** USB 2.0 Peripheral Port
- **I:** Audio Out and Microphone Port

Software

Supported Operating Systems****	Windows Server 2008 R2 SP1 Windows Multipoint Server 2011 Windows 7 SP1 (32 or 64 bit) Linux
PC Host Requirements	See recommended hardware configuration guide at ncomputing.com/support

* Cables Not Included: Requires two CAT5e cables and two USB A/B cables and an Ethernet connection.

** Host PC, monitor, keyboard, mouse, speakers, cables and other peripherals are NOT included and must be purchased separately.

*** Application software, client access and OS licenses for the shared PC and M300 may be required by the respective software vendor and must be purchased separately.

**** Please refer to the Microsoft operating system licensing requirements and technical details at www.ncomputing.com/mslicensing
Specific Linux support information is available at ncomputing.com/kb

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