



## GET INCREDIBLE VIEWS NVIDIA® NVS™ 300

The standard for multi-display business graphics

The NVIDIA® NVS™ 300 high resolution, multi-display business graphics solution, designed for small and standard form factor systems, delivers reliable hardware and software for a stable business environment.

NVIDIA® NVS™ 300 is the chosen solution across financial institutions, emergency call centers, digital signage systems and other mission critical environments.

Featuring a unified architecture designed to dynamically allocate GPU resources, NVS 300 delivers optimized performance for business graphics. Supporting up to two VGA, single link DVI, Display Port or HDMI displays up to 2560x1600 resolutions, NVS 300 lets you drive a wide range displays from a single board. In addition, NVS 300 provides high quality HD video output and high memory bandwidth for today's demanding digital signage installations.

With the included NVIDIA Mosaic™ Technology and nView® Desktop Manager software, NVS 300 delivers maximum flexibility for single or multi-display options. Mosaic Technology enables spanning of your entire Windows desktop and taskbar over multiple

displays or a single ultra high resolution display with a single or multiple NVS graphics cards. nView's productivity enhancing features provide you with unprecedented control of the desktop experience. Features include: Gridlines that divide single or multiple displays into smaller sub-displays, Virtual Desktops that seamlessly reduce desktop clutter and User Profiles that assist with enterprise deployments.

NVIDIA NVS 300 business graphics solution is engineered and built by NVIDIA to provide a reliable platform and is thoroughly tested for compatibility with leading business applications to meet the needs of today's most demanding business users.

### PRODUCT SPECIFICATIONS

#### FORM FACTOR

- > Low Profile 2.7" (H) x 5.7" (L)

#### FRAME BUFFER MEMORY

- > 512 MB DDR3

#### MEMORY INTERFACE

- > 64-bit

#### MEMORY BANDWIDTH

- > 12.6 GB/s

#### MAX POWER CONSUMPTION

- > 17.5W

#### GRAPHICS BUS

- > PCI Express x16 or x1

#### DISPLAY CONNECTORS

- > DMS-59

#### FLEXIBLE DISPLAY OPTIONS

- > 2 single link DVI-I or 2 VGA or 2 Display Port

#### THERMAL SOLUTION

- > Fanless heatsink

## NVIDIA® NVS™ 300

Features	Benefits
INTELLIGENT POWER MANAGEMENT	NVIDIA Power Management technology reduces overall system energy costs. It intelligently adapts the total power utilization of the graphics subsystem based on the applications being run by the end user. This power optimized design helps reduce Total Cost of Ownership (TCO) and increase reliability.
HIGH RESOLUTION DISPLAY SUPPORT	Drives ultra high resolution panels using integrated display technologies, producing phenomenal photorealistic image quality from a range of display connectors. Supports two simultaneous displays, including single-link DVI, DisplayPort, VGA or HDMI.
NVIEW® ADVANCED DESKTOP SOFTWARE	The nView® Advanced Desktop Software delivers maximum flexibility for single large display or multi-display options, providing unprecedented end-user control of the desktop experience for increased productivity.
MULTI-DISPLAY EXPERIENCE WITH NVIDIA MOSAIC™ TECHNOLOGY	Mosaic™ Technology enables seamless taskbar spanning as well as transparent scaling of any application across up to 8 displays. Works over multiple displays or one ultra-high resolution display using a single or multiple NVS graphics cards. <sup>1</sup>
LOW-PROFILE & FLEXIBLE FORM FACTOR	Simplifies IT administration and deployment throughout an enterprise. Regardless of desktop system (standard tower PC, workstation, small form factor system) or the display type (LCD, DLP, plasma) NVS 300 has the ability to fit into any existing installations without being disruptive.
NVIDIA CUDA™	CUDA's parallel computing architecture enables dramatic increases in computing performance by harnessing the power of the GPU (graphics processing unit). NVS 300 contains 16 CUDA™ parallel computing cores compatible with all CUDA accelerated applications.

## TECHNICAL SPECIFICATIONS

### SUPPORTED PLATFORMS

- > Microsoft Windows 7 (64-bit and 32-bit)
- > Microsoft Windows Vista (64-bit and 32-bit)
- > Microsoft Windows XP (64-bit and 32-bit)
- > Microsoft Windows 2000 (32-bit)
- > Linux®-x86 and Linux-x86\_64
- > Solaris®
- > AMD64, Intel EM64T
- > PCI Express 2.0 Support

### NVIDIA NVS 300 ARCHITECTURE

- > Integrated DisplayPort, VGA & TMDS (DVI & HDMI) support
- > PCI Express 2.0 support
- > NVIDIA nView® Desktop Manager Software support
- > NVIDIA® CUDA™ technology capable

- > NVIDIA® Mosaic™ technology
- > 128-bit color precision
- > 12 pixels per clock rendering engine
- > 3D volumetric texture support
- > 3rd-generation occlusion culling
- > 16 textures per pixel in fragment programs
- > Window ID clipping functionality
- > Compliant with professional OpenGL® and DirectX® applications

### ADVANCED DISPLAY FEATURES

- > Supports versatile DMS59 Connector
- > Drives two SL-DVI-I, VGA or DisplayPort via supported DMS59 based break out cable adaptors
- > DisplayPort outputs drives two digital displays at resolutions up to 2560 x 1600 @ 60Hz

- > Single-link DVI-I outputs drive two digital displays at resolutions up to 1920x1200 @ 60Hz
- > Internal 400 MHz DAC drives two analog displays up to 2048 x 1536 @ 85Hz
- > DisplayPort 1.1a, HDMI 1.3a, and HDCP support
- > HDMI support using optional DP-HDMI or DVI-HDMI dongles
- > Support for integrated audio via Display Port & HDMI
- > Support for multiple display modes including DualView, Span and Clone modes

To learn more about NVIDIA NVS, visit [www.nvidia.com/nvs](http://www.nvidia.com/nvs)

<sup>1</sup>Mosaic Technology is supported in Win 7 only.