Eyeviz Digital Solutions (I) Pvt. Ltd.

SGN SERIES

SGN-6000R

GRAPHICS CONTROLLER
FOR VISUAL DISPLAY SYSTEM

PRODUCT DESCRIPTION

SGN-6000 is a network based graphic controller for the management of video wall systems, single display or projectors. Through its Multi-Screen ability any display surfaces can be realized. The controller creates a big, stretched desktop for network – applications, video and graphic sources. At the heart of the SGN-6000 works the powerful GPU. The SGN-6000 Controller offers an ultra-high-performance bus, cost-effective INTEL® XEON® CPUs, 64Bit technology and high bandwidth through these new technologies guarantee the revolutionary and powerful performance of the next generation of the SGN Family in any control room application.

The SGN-6000 provides multiple analog and digital video & graphic connectivity with input cards. Video and graphic sources can be displayed simultaneously on the display wall in full frame rates. All analog and digital Video /RGB /DVI/ HDMI/ DP are transmitted with High-speed without any dependencies on the system.
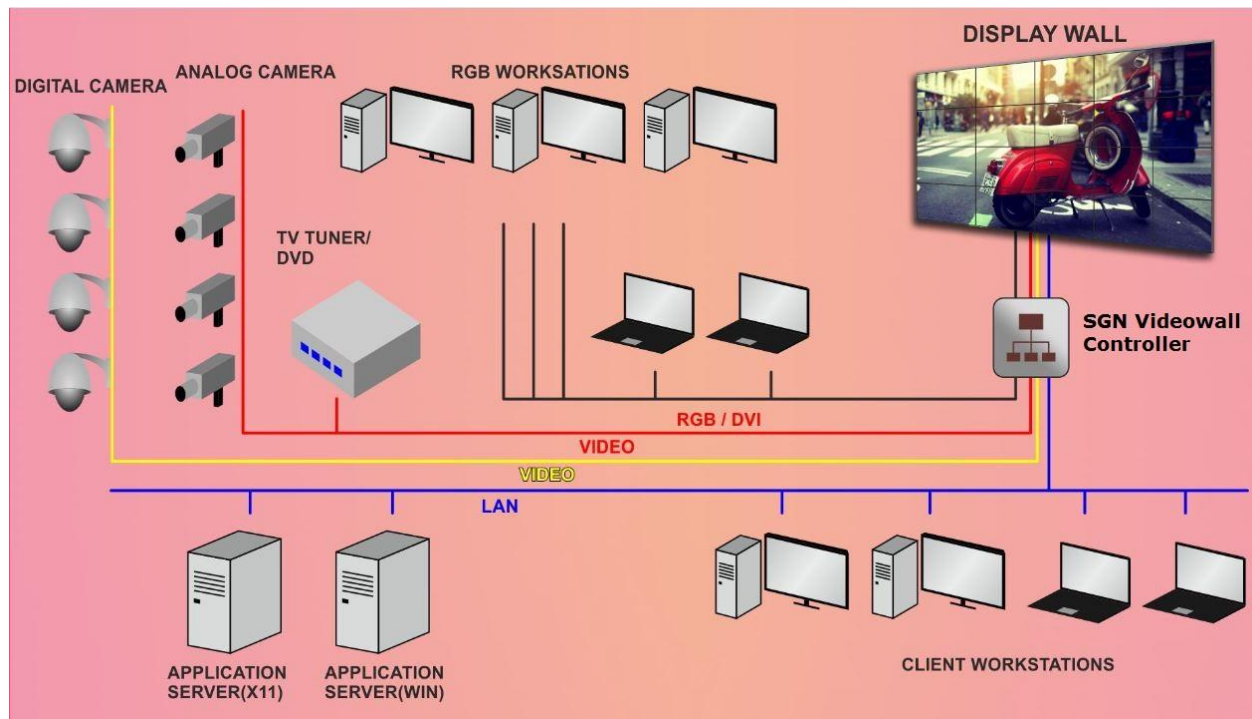
THE ADVANTAGES OF SGN-6000 CONTROLLERS

℮ Reduced height and depth of installation

℮ Simple system architecture

℮ Higher performance

℮ High-end Capture Capability

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SYSTEM OVERVIEW

SYSTEM ARCHITECTURE

The SGN 6000 Series controller relies on new Chipset technology. This technology is based on the new Intel Xeon Processor. Compared to other systems, this CPU generation provides a favorably priced start for the high-quality presentation of applications.

- Up to Intel Xeon Processor with up to 3.1GHz
- High-end server components for highest availability
- 8/16/32 GB RAM (Upgradable)
- Dual Gigabit Ethernet

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SYSTEM AVAILABILITY

- Redundant hot swappable power supply units.
- Multiple Capture Capability.
- Redundant SATA HDD with RAID1 configuration.
- High Resolution Graphic Display ability.

DESKTOP MANAGEMENT & OPERATING SYSTEM

- Because of its Multi Screen-ability, any data and application can be displayed simultaneously; they can also be positioned and resized freely. The operator has a big desktop with a very high resolution at his disposal, which will be multiplied by the size of the wall.
- Windows 10 Pro (64 Bit)
- Huge Windows desktop with up to 32000 x 32000 pixel depending on the size of the system
- Standard Windows® and SCADA software can be displayed on the wall with no restriction.
- Windows® based applications can be displayed simultaneously with any other input signals like Video/ RGB/ DVI/ HDMI/ DP.
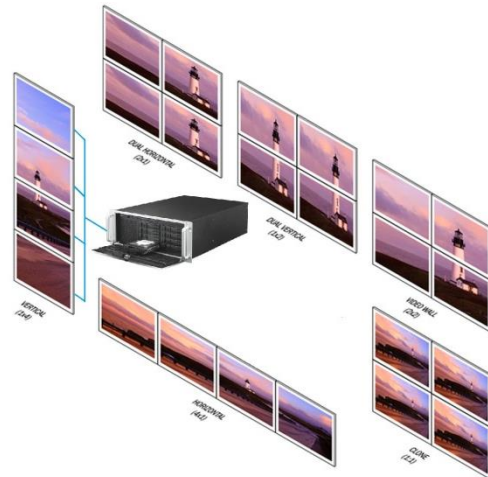
INPUT SIGNAL PROCESSING

The SGN-6000 controller can be equipped with various input cards for Video – RGB/ DVI/ HDMI/ DP/ HDSDI. All input signals windows can be moved, scaled and placed freely on the display wall. The input cards provide state-of-the-art video processing resulting in superb quality.

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RGB / DVI/ DP INPUT
Display of the source output in freely moveable, scalable and placeable windows on the display wall.
Input Signals:

DVI up to 1920 x 1200	DVI Dual Link up to 2560 x 1600
Analog up to 2048 x 1536	Display Port up-to 4096 x 2160

SDI Inputs
Display of the source output in freely moveable, scalable and placeable windows on the display wall.

Video Modes:
SD-SDI (480i/576i), HD-SDI (up to 1080i), 3G-SDI (up to 1080p), 2k digital & 4k digital cinema modes

OUTPUT SIGNAL PROCESSING

The new GPU with 2GB GDDR5 per output card achieves a never seen graphic performance.

- Digital outputs up to 2560x1600 pixels at 60Hz
- Multiple resolution modes for different output resolutions at the same time
- Underlapping mode for narrow bezel displays
- Overlapping mode for edge overlapping projections
- Pivot mode for landscape and portrait display

WALL MANAGEMENT SOFTWARE

For an easy management of large screen displays, we recommend combining Videowall management software with the SGN controller. With this software, especially developed for large screen displays, the user has nearly unlimited possibilities for the management and operation of his display wall.

General application being display of – pictures, documents, website, RSS feeds, soft KVM on hardware sources, hardware & software decoding, controlling third party devices, manage local window application as well as manage multiple videowall using a single controller. User can create layout/preset, save and load. Wall management software has compatibility with iOS, Windows, Android, HTML5 web browser (Win/ Mac/ Linux).

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GRAPHICS CONTROLLER FOR VISUAL DISPLAY SYSTEM

Processor:	Up to Intel® Xeon™ Quad core processor or better with up to 3.10 GHz
Chipset:	Intel® C612
RAM:	16GB DDR Ram (expandable up to 32GB)
Expansion Slots:	7 slot - PCIe x16 Slots
Hard Disk:	Up to 1TB (RAID 0 / RAID 1 configuration) (SSD Optional)
Ethernet:	2 x 10/100/1000 Mbps RJ45 Ports
Chassis:	4 U 19" Rack mountable
Weight:	25kg (approx.)
Operating Conditions:	Temperature: 10°C - 30°C
Power Supply:	100-240 V, 50-60Hz 550 Watt RPS
Heat Dissipation:	2220 BTU
Operating System:	Windows 10 Pro 64Bit OEM
Accessories(optional):	Keyboard, Optical Mouse, KVM, Digital Adapters, Extenders, Expansion Slots, Raid 5, Rack Mounting Kit, Disk Imaging software, Antivirus
Graphic Memory:	2GB per Graphic
Resolution:	640 x 480 up to 2560 x 1600 per Output
Colour Depth:	16/32 Bit
Input Signal	Optional: DVI/ HDMI/ DP/ SDI/ HDSDI
Output Signal:	mDP to DP, Optional: mDP to DVI/ HDMI

*Configuration might be upgraded by EDS time by time without any prior notification.
** Configuration can be custom built as per requirement.