

SGN SERIES

SGN-9000R

GRAPHICS CONTROLLER FOR VISUAL DISPLAY SYSTEM



PRODUCT DESCRIPTION

SGN-9000 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-9000 works the powerful GPU. The SGN-9000 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-9000 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-9000 CONTROLLERS

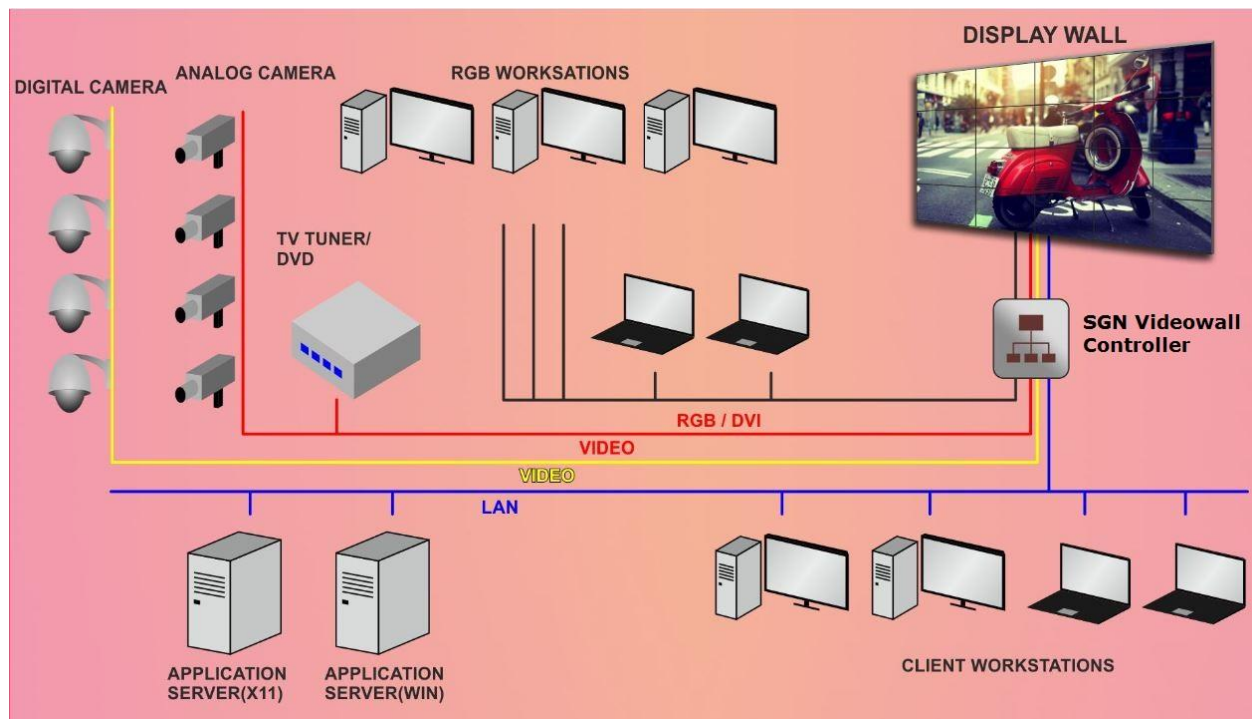
- ☞ Reduced height and depth of installation
- ☞ Simple system architecture
- ☞ Increased number of Input & Output ports
- ☞ High-end Capture Capability
- ☞ Expandable architecture for future system upgrade
- ☞ Higher performance

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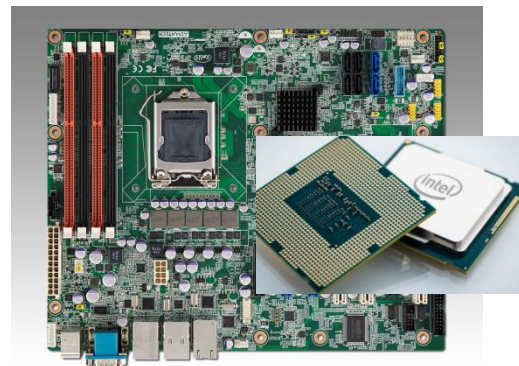
SYSTEM OVERVIEW



SYSTEM ARCHITECTURE

The SGN 9000 Series controller relies on new SBC (Single Board Computer) 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.

- Intel Xeon Processor with up to 3.2GHz
- High-end server components for highest availability
- 8 GB RAM (upgradable)
- Dual Gigabit Ethernet



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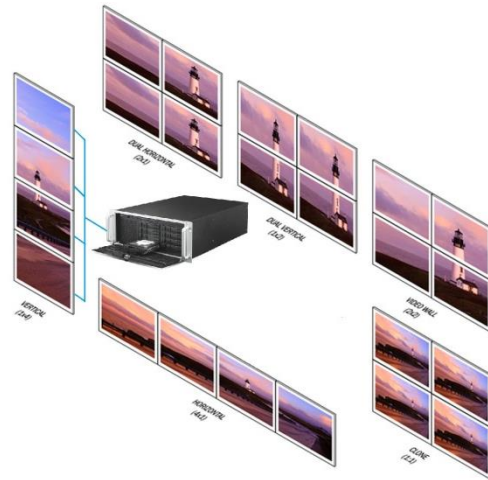
GRAPHICS CONTROLLER FOR VISUAL DISPLAY SYSTEM

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 10Pro (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-9000 controller can be equipped with various input cards for Video – RGB/ DVI/ HDMI/ DP/ HDS DI. 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. Additional number of cards per system possible creating easy way to upgrade for future system expansion.

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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 Single Link 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 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 the 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.

Wall management software has compatibility with iOS, Windows, Android, HTML5 web browser (Win/ Mac/ Linux). With optional Preview support for each source connected, the user can view the source content for easier operations. User can create layout/preset, save and load.



Eyeviz Digital Solutions (I) Pvt. Ltd.

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Processor:	Up to Intel® Xeon™ Quad core processor or better with up to 3.2 GHz
Chipset:	Intel® C216
RAM:	16GBGB DDR Ram (expandable up to 32GB) (SSD Optional)
Expansion Slots:	10 slot - PCIe x16 Slots, 1 slot – PCIe x4 Slots
Hard Disk:	2 x 1TB (RAID 0 / RAID 1 configuration)
Ethernet:	2 x 10/100/1000 Mbps RJ45 Ports
Chassis:	4 U 19" Rack mountable
Weight:	30kg (approx.)
Operating Conditions:	Temperature: 10°C - 30°C
Power Supply:	100-240 V, 50-60Hz 810 Watt (Redundant, Hot Swappable)
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 board
Resolution:	640 x 480 up to 3840 x 2160 per Output
Color 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.