

SGN SERIES

SGN-3000R

GRAPHICS CONTROLLER
FOR VISUAL DISPLAY SYSTEM



PRODUCT DESCRIPTION

SGN-3000 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-3000 works the powerful GPU. The SGN-3000 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-3000 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-3000 CONTROLLERS

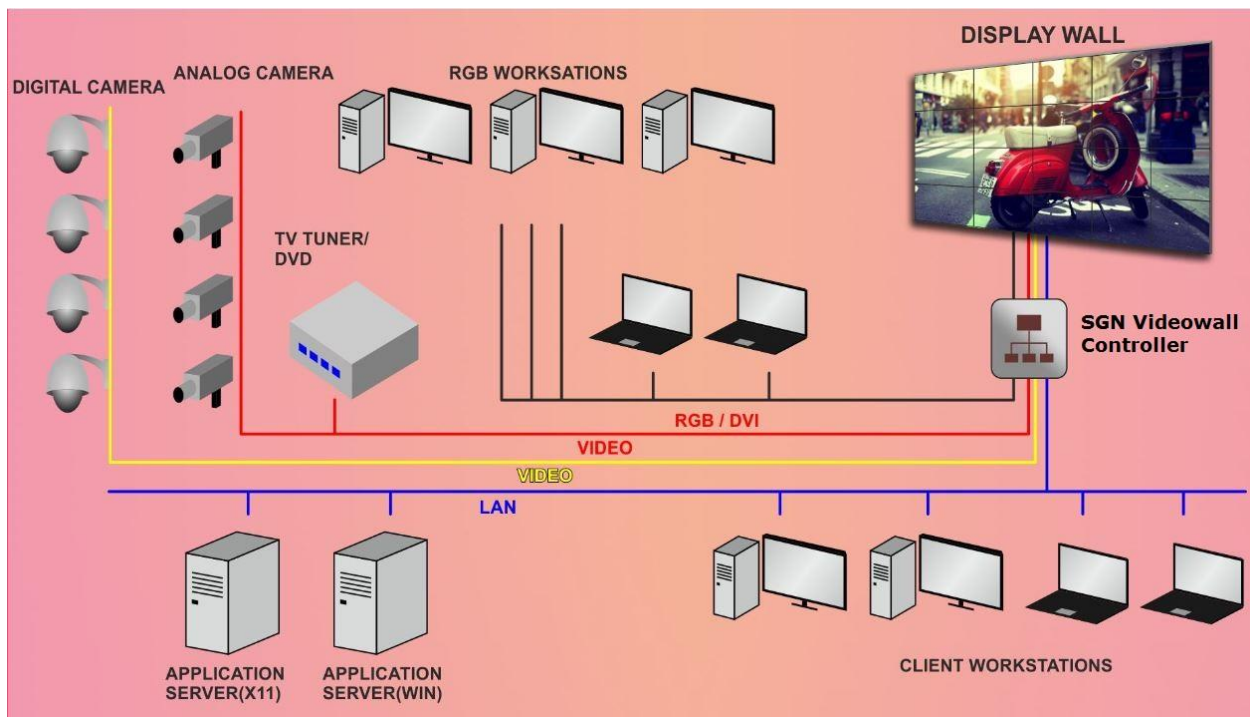
- ☉ Reduced height and depth of installation
- ☉ Simple system architecture
- ☉ Higher performance
- ☉ High-end Capture Capability

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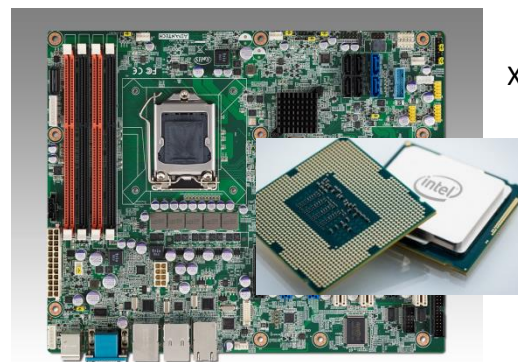
SYSTEM OVERVIEW



SYSTEM ARCHITECTURE

The SGN 3000 Series controller relies on new Chipset technology. This technology is based on the new Intel Processor. Compared to other systems, this CPU generation provides a favorably priced start for the high-presentation of applications.

- Up to Intel Xeon Processor with up to 3.1GHz
- High-end server components for highest availability
- 8 GB RAM
- DUAL Gigabit Ethernet



Xeon
quality

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SYSTEM AVAILABILITY

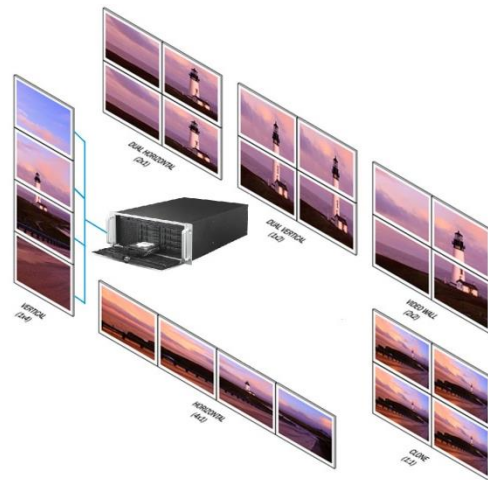
- Redundant power supply units, hot swappable*
- Redundant SATA HDD with RAID1*

* Optional

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 64Bit
- Huge Windows desktop with up to 32000x32000 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.



INPUT SIGNAL PROCESSING



The SGN-3000 controller can be equipped with various input cards for video, RGB/DVI- 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 INPUT

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

Input Signals:

- DVI Single Link up to 1920x1200
- DVI Dual Link up to 2560x1600
 - Analog up to 2048x1536



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

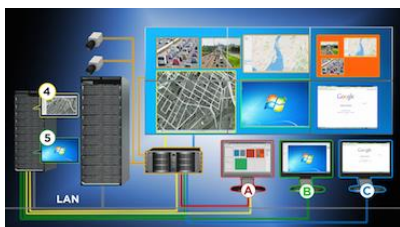
OUTPUT SIGNAL PROCESSING

The new GPU with 1GB per output card achieves a never seen graphic performance.

- Digital outputs up to 1920 x 1200 pixels and HD Format
- 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. User can create layout/preset, save and load.

SGN SERIES

SGN-3000 R

GRAPHICS CONTROLLER FOR VISUAL DISPLAY SYSTEM

Processor:	Up to Intel® Xeon™ with 3.10 GHz
Chipset:	Intel® C226
RAM:	8GB DDR Ram (expandable up to 32GB)
Expansion Slots:	2 PCI-E X 16 Slots
Hard Disk:	Up to 1TB or upgradable
Ethernet:	2 x 10/100/1000 Mbps RJ45 Ports standard integrated
Chassis:	4 U 19" Rack mountable
Weight:	23kg (approx.)
Operating Conditions:	Temperature: 20°C - 25°C
Power Supply:	100-240 V, 50-60Hz 500 Watt
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:	1GB per board
Resolution:	640x480 up to 1920x1200 and HDTV 1080p per Output
Colour Depth:	16/32 Bit
Input Signal	Optional: DVI-I Connector (Analog and Digital), optional: HDMI to DVI Adapter
Output Signal:	mDP Connectors, optional: mDP to HDMI Adapter

*Configuration might be upgraded by EDS time by time without any prior notification.

** Configuration can be custom built as per requirement.