

TransForm A12

Compact and ultra fast video wall controller for small to large size video walls with high video & RGB demands.



TransForm A is a flexible and powerful video wall controller. Barco's OmniScaler technology offers easy, built-in integration of digital and analog video and data sources, and allows users to place windows of any size anywhere on the video wall, without any compromises on quality.

The compact and fast TransForm A12 system for small to large size video walls is based on the easily expandable modular TransForm A architecture. Using a TransForm A Processor and multiple TransForm A OmniBus A12 units, even the highest video and RGB demands are fulfilled.

Maximum flexibility and scalability

- supported operating systems: Windows 2000/XP
- output resolution up to WUXGA
- virtually unlimited number of display channels and input sources
- up to 44 video/22 RGB sources per display channel
- up to 44 video/22 RGB windows freely movable on the whole video wall

Superb video and RGB integration

- analog, digital and networked streaming sources
- full range scaling capability from finger print size to full wall size
- direct video/RGB access and control
- independent color depth selection of video, RGB, and graphic windows
- uncompromising digital data processing
- genlock synchronization of graphics and video data for a perfectly smooth motion display

Power, bandwidth, future-proof

- perfect synergy of high graphic and video performance combined with maximum processing power in a modular architecture
- TransForm A processor is the high performance processing core of the system, built on the latest easily upgradeable standard PC technology
- TransForm A OmniBus A12 with dedicated Switch Fabric and intelligent high-bandwidth backplane provides the optimized resources needed for graphic and video data integration
- redundant, hot-swappable critical components for high overall system reliability

System solution

- perfectly integrated with Barco's Apollo wall management software

TransForm A system overview

Processing power plus multimedia speedway

- An open architecture and the extensive use of industry standards providing ultimate scalability
- Flexible and economical support for any system size and any input demand
- Future-proof investment thanks to upgradable Processor/OmniBus approach, starting from Processor-only systems up to multi-OmniBus configurations for virtually any system size

TransForm A OmniBus

- TransForm A OmniBus forms the backbone of the graphic and Video subsystem
- Designed to integrate and display all kinds of data sources
- Quality of Service (QoS) by separating graphic data and network traffic from bandwidth-demanding Input data
- Switch Fabric based with up to 6.4 GB/s of bandwidth capacity for huge systems
- Non-proprietary, standard PCI 64/66 expansion Card interface ensures compatibility

TransForm A configuration types

TransForm A is flexibly configurable according to the requirements of the application. The entry level system TransForm A4/AX6, with all Input and output Cards inserted into the TransForm A Processor, can easily be expanded to either a TransForm A12 system integrating up to five OmniBus A12 devices. Typically, adding Inputs or outputs to a system merely means adding an Input Card or an output Card and possibly an OmniBus to the system. TransForm A covers the complete range of today's Video wall controller requirements and scales perfectly with the growing demands in a quickly evolving world.

Best-in-class connectivity for any display size The rich set of configurable TransForm A Input Cards provides dedicated input capabilities for the widest range of source types to be found in typical control room scenarios. Managed by the TransForm A driver level software, multiple TransForm A output Cards on the matrix of display devices generate one giant desktop for all standard user applications, and OmniScaler cards scale, combine and display all sources in true digital quality on the display devices.

Input Cards The Quad Analog Video Card and the Quad SDI Video Card fulfill the demand for analog and digital standard definition Video types, whereas the Dual RGB Input Card connects economically to all types of computers with an analog output. The Dual DVI Input Card is the allrounder that covers standard analog Video and computer signals and distinguishes itself with the support for High Definition and DVI signal sources. Characterized by the widest encoder support and a fully digital processing path the Streaming Video Card opens the gate to all types of networked streaming sources.

OmniScaler technology TransForm A distinguishes itself from other Video wall controllers by the consequent realization of the all-digital concept. Quality reducing analog paths and matrix switchers inside the system are kept out by design. The signals are immediately digitized when entering the system and subsequently digitally processed in the OmniScaler. Unlike other controllers the OmniScaler features individual scaling factors for every single data source, even if there are many on one channel. This results in superior signal quality for all windows on the Video wall.

Output cards The 4-channel UGX Graphic Card is able to drive all types of digital and analog display devices with native resolution up to WUXGA that are used to build tiled video walls. As the perfect companion to the graphic card, the OmniScaler offers the highest degree of quality and flexibility for video data insertion on the video wall:

- Digital and analog video and RGB/DVI windows can be placed anywhere on the video wall
- Multiple different scaling factors on one module and on the whole wall are processed naturally without any quality loss, at any window size
- Scaling factors range from fingerprint size up to full video wall size.

Windows 2000/XP

- The display is operated as one giant Windows 2000/XP desktop

- Transparent, unrestricted use of the entire wall for standard Windows 2000/XP applications
- All applications can be operated by the local keyboard or by any other Windows 2000/XP computer (with optional Apollo software package)
- Powerful Windows 2000/XP drivers tuned and optimized for large multiscreen video walls

Wall management software Barco's wall management software enables operators to control and manage the video wall layout and content in a user-friendly way, both for remote and local applications.

Reliability and redundancy For uninterrupted system operation TransForm A provides several redundancy options:

- Redundant hot-swap power supplies
- Redundant hot-swap RAID Level 1 or RAID Level 5 harddisk
- Redundant Ethernet adapter
- The redundancy components are continuously monitored; audio and video alarms are triggered in case of failure

기술 사양

일반 사양

프로세서

TRANSFORM A12

- Processor A4
- Intel Core 2 Duo 2.13 GHz
 - 1 GB main memory standard
 - extendable up to 4 GB max. (3 GB usable)
 - SATA disk drive 250 GB (RAID-1/RAID-5 option)
 - 10/100/1000 MBit LAN (redundant option)
 - redundant, hot-swap power supply (option)
 - host for up to 4 OmniBus units
- Processor AX6
- Dual-core Intel Xeon® CPU, 3 GHz, 1 or 2 CPU's
 - 2 GB ECC main memory standard
 - extendable up to 4 GB (3 GB usable)
 - SATA disk drive 250 GB (RAID-1/RAID-5 option)
 - dual 10/100/1000 MBit onboard LAN (redundant)
 - redundant, hot-swap power supply
 - host for up to 5 OmniBus units

OmniBus

- Switch Fabric
- 1.6 GB/s
- 12 slots
- redundant hot-swap power supply

무게

- Processor A4
- standard, no cards: 18.0 kg | 39.7 lbs
 - redundant PSU, no cards: 20.5 kg | 45.2 lbs
- Processor AX6
- redundant PSU, no cards: 23.3 kg | 49.2 lbs
- OmniBus A12
- redundant PSU, no cards: 18.2 kg | 40.1 lbs

크기

- Processor A4
- 19" industrial case, height in rack unit: 4U
 - width case: 440 mm | 17.32 in.
 - width with fixation: 482 mm | 18.98 in.
 - depth case: 516 mm | 20.32 in.
 - depth with handles: 566 mm | 22.28 in.
 - height: 177 mm | 6.97 in.
 - height with rubber feet: 183 mm | 7.20 in.
- Processor AX6
- 19" industrial case, height in rack unit: 4U
 - width case: 440 mm | 17.32 in.
 - width with fixation: 482 mm | 18.98 in.
 - depth case: 566 mm | 22.28 in.
 - depth with handles: 616 mm | 24.25 in.
 - height: 177 mm | 6.97 in.
 - height with rubber feet: 183 mm | 7.20 in.
- OmniBus A12
- 19" industrial case, height in rack unit: 4U
 - width case: 440 mm | 17.32 in.
 - width with fixation: 482 mm | 18.98 in.
 - depth case: 450 mm | 17.72 in.
 - depth with handles: 500 mm | 19.69 in.
 - height: 177 mm | 6.97 in.
 - height with rubber feet: 183 mm | 7.20 in.

전원 공급 장치

전력 소비

- 100-240 V, 50-60 Hz
- Processor A4
- standard (typ): 400 W
- redundant (typ): 400 W
- Processor AX6
- redundant: 650 W
- OmniBus A12
- redundant (typ): 600 W

작동 조건

0 – 40°C | 32 – 104°F at max. 80% humidity (non condensing)

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