



ANGUSTOS AMC-OUT-H 4K-UHD FPGA Video Wall Controller Owner's Manual

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ANGUSTOS AMC-OUT-H 4K-UHD FPGA Video Wall Controller



Product Information

The 4K-UHD FPGA Video Wall Controller by Angustos is a high-performance video processing equipment with a hardware-based design. It eliminates the need for high-end computer specifications, GPU cards, licenses, and the risk of OS crashes, viruses, and black screens. The controller supports up to 72 input x 72 output connections and features a dedicated Field Programmable Gate Array (FPGA) chipset for optimized video processing. The modular design allows for easy customization and expansion, supporting various connections including HDMI, DVI, VGA, HDBaseT, and IP streaming. The controller also includes features like audio support, specialized video settings, scaling functions, and seamless switching.

Product Usage Instructions

1. Connect the desired input sources (HDMI, DVI, VGA, etc.) to the corresponding input slots on the video wall controller.
2. For audio support, connect an audio source to the built-in audio port.
3. Customize the layout of the video wall by using the Drag & Drop feature. Simply click on the desired video source and drag it to the desired position on the video wall.
4. Use the DIP switch to adjust the up/down scaling function if required.
5. For bezel pixel compensation in the video wall setting, ensure that HDMI 1.4 with HDCP 2.2/1.4 Edge Shield features are enabled.
6. To switch between different input sources seamlessly, use the appropriate control method such as the remote control, TCP/IP, RS-232, or button control.
7. For further customization and system integration, additional input/output cards can be added or replaced. Each FPGA chip works independently, allowing flexibility in system configuration.
8. Refer to the provided datasheet for detailed specifications and compatibility of the AMC Series Output Cards.
9. Ensure that the operating temperature of the video wall controller is within the specified range for optimal performance.
10. Store the video wall controller in a suitable environment with the recommended storage temperature to prevent damage.

For more information and support, visit www.angustos.com.

Hardware Based Design

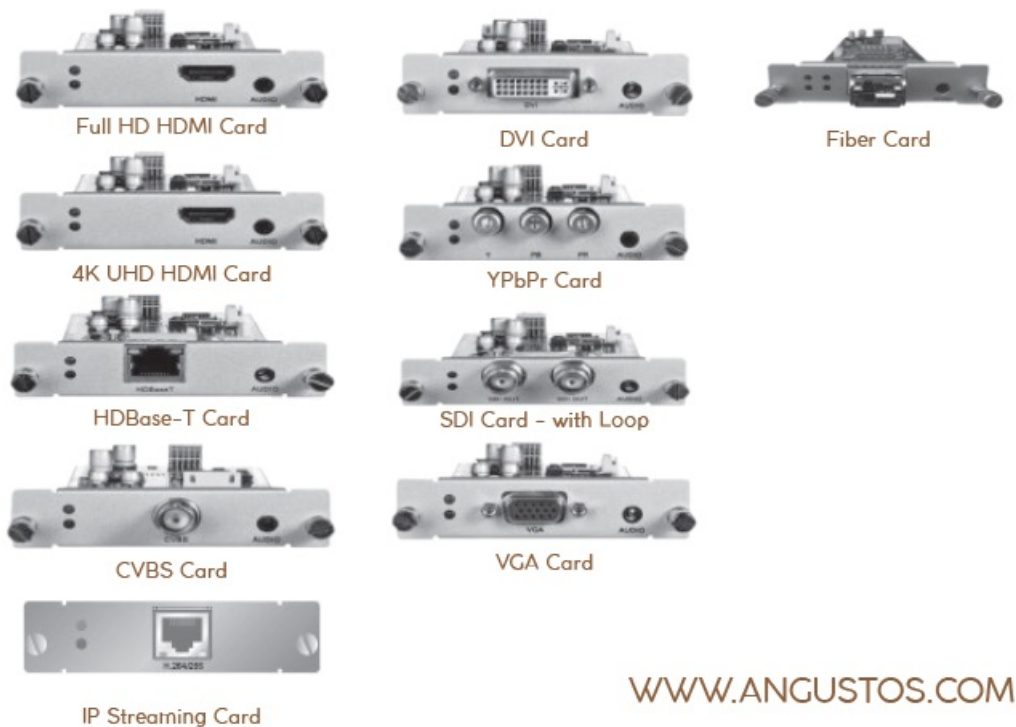
High-performance video processing equipment with hardware architecture design

- No more computer high-end specifications.
- No more high-end GPU Card.
- No more licenses.
- No more blue-screen OS crash.
- No more viruses and black screen.
- No more ransomware lost data.
- Support up to 72 input x 72 output.

FPGA Dedicated Chipset

- A dedicated Field Programmable Gate Array (FPGA) chipset is a combination of processing unit that are dedicated in video processing. This eliminated the limitation of a CPU or a GPU from conventional Software or PC controller.
- Without the use of PCI – Express card, the unit can work flawlessly when adding or editing the total layout of the video set up.
- As each of the FPGA chip is working independently, user can replace or add new input/output card to customize their system

Module design with Hot Swap



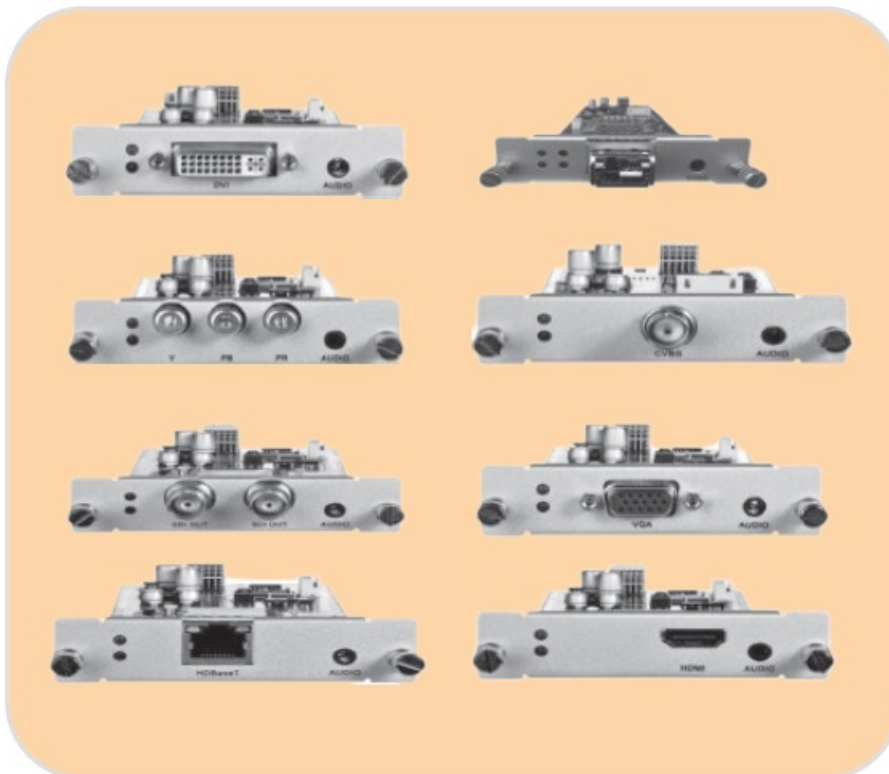
- Multiple form of connections for the client to custom fit their system.
- The client can now combine HDMI – DVI – VGA – HDBaseT & IP Streaming in one total solution, maximizing system integration.
- Reduce total cost of investment in both pre/post phases of expansion.

- The chassis also support control over Remote control, TCP/IP, RS-232 & button, further simplifying the complexity of connections and management

Features

- Modular design – Mix and Match
4 x 4 up to 72 x 72 input x output slot with mixing ports
- Easy control with Drag & Drop
Customize complex layout with simple Click – Drag – Drop
- 4K Video Wall with Flexible set up
Support DVI-I / HDMI / 3GSDI / HDBaseT / Fiber connections.
- Support resolution up to 4K@60Hz for both input/output (HDMI)
Built-in Audio port
- Support 3.5mm audio embedded and de-embedded function
Specialized video setting
- Support HDMI 1.4 with HDCP 2.2 / 1.4
Edge Shield features for Bezel pixel compensation in the Video Wall setting
- Scaling function
Support up/down scaling function via the DIP switch
- Seamless Switching
Switching speed can reach 32Gbps

VIDEO WALL CONTROLLER with SEAMLESS – AMC Series OUTPUT CARDS DATASHEET



- Compatible with the AMC Modular Matrix Switches
- 4K Resolutions support – up to 4096 x 2160 @ 60Hz
- Scaler – features a video scaling function

- Seamless – continuous video streams, real-time
- Video Wall – custom video wall layouts
- EDID Manager across different screens
- Audio-embedded, HDMI audio can be extracted
- HDMI (3D, Deep Color, 4K); HDCP 2.2
- Compatible Consumer Electronics Control (CEC) support
- Resolution Backward compatible

GENERAL SPECIFICATION

Model	AMC-OUT-H	AMC-OUT-HK	AMC-OUT-D	AMC-OUT-V	AMC-OUT-SD
Interface	HDMI x 1	HDMI x 1	DVI - I x 1	D-Sub 15 pin (VGA)	BNC x 2
Audio Loop Out	3.5mm Audio	3.5mm Audio	3.5mm Audio	3.5mm Audio	3.5mm Audio
Format Standard	HDMI 1.3, HDCP 1.3	HDMI 1.3 / 1.4 / 2.0	HDMI 1.3, DVI 1.0	RGBHV, RGBS, RGsB	SMPTE424M/292M/259M
	DVI 1.0 Compatible	HDCP 1.3/1.4/2.0/2.2	HDCP1.3	RsGsBs	SD-SDI, HD-SDI, 3G-SDI
Resolution	1920 x 1200 @ 60Hz	4096 x 2160@60Hz	1920 x 1200@60Hz	1920 x 1200@60Hz	1920 x 1080P
Power Consumption	5 - 15W	5 - 20W	5 - 15W	5 - 15W	5 - 15W

Model	AMC-OUT-HDBT	AMC-OUT-CV	AMC-OUT-YP	AMC-OUT-FO	AMC-OUT-IPV
Interface	RJ-45 x 1	BNC x 1 (CVBS)	RCA X3 (YPbPr)	LC Single Core Fiber	RJ-45 x 1
Audio Loop Out	3.5mm Audio	3.5mm Audio	3.5mm Audio	3.5mm Audio	No
Format Standard	HDBaseT1.0 and HDCP	NTSC3.58, NTSC4.42	EIA-770.2a	HDMI1.3, HDCP1.3	H264 / H265
	Distance 70 - 100 m	PAL and SECAM		DVI1.0 compatible	Preview Card
Resolution	1920 x 1200 @ 60Hz	480i - 576i	1080i - 1080p	1920 x 1200@60Hz	Support input preview
Power Consumption	5 - 15W	5 - 15W	5 - 15W	5 - 15W	5 - 15W

ENVIRONMENT SPECIFICATION

Operating Temperature	0 - 50°C
Storage Temperature	-25 - 65°C
Operating Humidity	0-80% RH, Non-condensing
Storage Humidity	0-95% RH, Non-condensing

Website: <http://www.angustos.com>

Email: inquiries@angustos.com

Documents / Resources



[ANGUSTOS AMC-OUT-H 4K-UHD FPGA Video Wall Controller](#) [pdf] Owner's Manual
 AMC-OUT-H 4K-UHD FPGA Video Wall Controller, AMC-OUT-H, 4K-UHD FPGA Video Wall Controller, FPGA Video Wall Controller, Video Wall Controller, Wall Controller, Controller, AMC-OUT-HK, AMC-OUT-D, AMC-OUT-V, AMC-OUT-SD

References

-  [ANGUSTOS - The Best Selling IT & Pro AV in USA Market!](#)

Manuals+.