4K - UHD

Video Wall Controller

ANGUSTOS

4K-UHD FPGA VIDEOWALL CONTROLLER

Hardware Based Design

High performance video processing equipment with ★ hardware architecture design.

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

FPGA Dedicated Chipset

Dedicated Field Programmable Gate Array (FPGA) chipset is a combination of processing unit that 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 videowall 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 client to custom fit their system.
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 phase of expansion.
Chassis also support control over Remote control, TCP/IP, RS-232 & button, further simplify 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-embeded function

● **Specialized video setting**

Support HDMI 1.4 with HDCP 2.2 / 1.4
Edge Shield features for Bezel pixel compensation in Video Wall setting

● **Scaling function**
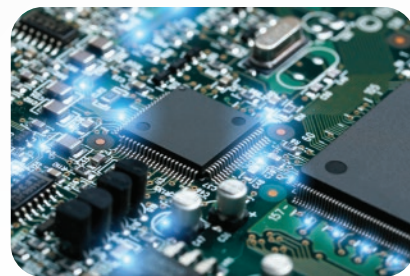
Support up/down scaling function via the DIP switch

● **Seamless Switching**

Switching speed can reach 32Gbps

Full HD HDMI Card
DVI Card
Fiber Card
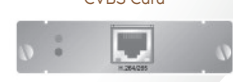4K UHD HDMI Card
YPbPr Card
HDBase-T Card
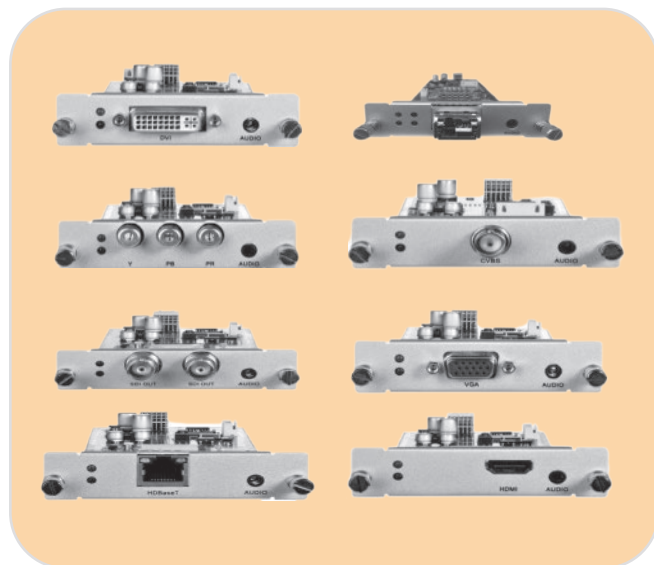SDI Card - with Loop
CVBS Card
VGA Card
IP Streaming Card

ANGUSTOS

VIDEO WALL CONTROLLER with SEAMLESS - AMC Series INPUT CARDS DATASHEET

Features

- 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-IN-H	AMC-IN-HK	AMC-IN-D	AMC-IN-V	AMC-IN-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	HDCP1.3 /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-IN-HDBT	AMC-IN-CV	AMC-IN-YP	AMC-IN-FO	AMC-IN-IP
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	H.264/H.265, MPEG-4
	Distance 70 - 100 m	PAL and SECAM		DVI1.0 compatible	SD-SDI, HD-SDI, 3G-SDI
Resolution	1920 x 1200 @ 60Hz	480i - 576i	1080i - 1080p	1920 x 1200@60Hz	1 x 4K or 4 x 1080P
Power Consumption	5 - 15W	5 - 15W	5 - 15W	5 - 15W	25W

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