

Display Controller (FPGA Architecture Linux)



Key Features:

- ✚ REDUNDANT POWER SUPPLY ENHANCED RELIABILITY, ENSURING CONTINUOUS OPERATION DURING FAILURES.
- ✚ SEAMLESS SWITCHING MATRIX DESIGNED TO CONFIGURATION RANGE FROM 8 TO 80 INPUTS & OUTPUTS.
- ✚ CONTROL INTERFACE FEATURING LAN & RS232 CONNECTIVITY FOR REAL-TIME SIGNAL MANAGEMENT
- ✚ SCALABLE SOLUTION FOR VIDEO WALL APPLICATIONS WITH INTEGRATED BEZEL COMPENSATION.
- ✚ MULTI-FORMAT INPUT & OUTPUT OPTIONS: FIBER/HDBASE-T/SDI/HDMI/VGA/DVI-U./YPBPR/CVBS.
- ✚ HIGH-PERFORMANCE SEAMLESS SWITCHING FOR PROFESSIONAL AV APPLICATIONS.
- ✚ PC SOFTWARE CONTROL FOR SIMPLIFIED MONITORING & CONFIGURATION.

Display Controller

Model	ADCB-ALC01	ADCB-ALC02	ADCB-ALC03	ADCB-ADC01
Matrix	Standard 8x8	Pro 16x16	Enterprise 36x36	Flagship 80x80
System	-	-	-	-
Chassis Size	2U	4U	8U	16U
Max. Inputs	8	16	36	80
Max. Outputs	8	16	36	80
Redundant Power Supply	Yes (100W x2)	Yes (200W x2)	Yes (350W x2)	Yes (350W x4)
Input Cards (Per Card)	-	-	-	-
Card Type 1	DVI-U (HDMI/DVI/VGA/DB-9/IR)	DVI-U	DVI-U	DVI-U
Input Connectors	DVI-I x2	DVI-I x2	DVI-I x2	DVI-I x2
Max. Resolution	1920x1080@60Hz	1920x1080@60Hz	1920x1080@60Hz	1920x1080@60Hz
Card Type 2	HDMI	HDMI	HDMI	HDMI
Input Connectors	HDMI 2.0 x2	HDMI 2.0 x2	HDMI 2.0 x2	HDMI 2.0 x2
Max. Resolution	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)
Card Type 3	SDI	SDI	SDI	SDI
Input Connectors	3G-SDI BNC x2	3G-SDI BNC x2	3G-SDI BNC x2	12G-SDI BNC x2
Max. Resolution	1080p@60Hz	1080p@60Hz	1080p@60Hz	4K@60Hz
Card Type 4	HDBaseT	HDBaseT	HDBaseT	HDBaseT
Input Connectors	RJ45 x2	RJ45 x2	RJ45 x2	RJ45 x2
Max. Resolution	4K@60Hz	4K@60Hz	4K@60Hz	4K@60Hz
Card Type 5	Fiber	Fiber	Fiber	Fiber
Input Connectors	LC x2 (Single Mode)	LC x2 (Single Mode)	LC x2 (Single Mode)	LC x2 (Single Mode)
Max. Resolution	4K@60Hz (up to 20km)	4K@60Hz (up to 20km)	4K@60Hz (up to 20km)	4K@60Hz (up to 20km)
Output Cards (Per Card)	-	-	-	-
Card Type 1	DVI-U (HDMI/DVI/VGA/YPbPr/CVBS)	DVI-U	DVI-U	DVI-U
Output Connectors	DVI-I x2	DVI-I x2	DVI-I x2	DVI-I x2
Max. Resolution	1920x1080@60Hz	1920x1080@60Hz	1920x1080@60Hz	1920x1080@60Hz
Card Type 2	HDMI	HDMI	HDMI	HDMI
Output Connectors	HDMI 2.0 x2	HDMI 2.0 x2	HDMI 2.0 x2	HDMI 2.0 x2
Max. Resolution	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)
Card Type 3	SDI	SDI	SDI	SDI
Output Connectors	3G-SDI BNC x2	3G-SDI BNC x2	3G-SDI BNC x2	12G-SDI BNC x2
Max. Resolution	1080p@60Hz	1080p@60Hz	1080p@60Hz	4K@60Hz
Card Type 4	HDBaseT	HDBaseT	HDBaseT	HDBaseT
Output Connectors	RJ45 x2	RJ45 x2	RJ45 x2	RJ45 x2
Max. Resolution	4K@60Hz	4K@60Hz	4K@60Hz	4K@60Hz
Card Type 5	Fiber	Fiber	Fiber	Fiber
Output Connectors	LC x2 (Single Mode)	LC x2 (Single Mode)	LC x2 (Single Mode)	LC x2 (Single Mode)
Max. Resolution	4K@60Hz (up to 20km)	4K@60Hz (up to 20km)	4K@60Hz (up to 20km)	4K@60Hz (up to 20km)
Video Processing	-	-	-	-
Seamless Switching	Yes (<1ms)	Yes (<1ms)	Yes (<1ms)	Yes (<1ms)
Gen-lock Synchronization	Yes (<0.1ms)	Yes (<0.1ms)	Yes (<0.1ms)	Yes (<0.1ms)
Scaling	Bilinear, Bicubic, Lanczos (Specify more if applicable)	Bilinear, Bicubic, Lanczos	Bilinear, Bicubic, Lanczos	Bilinear, Bicubic, Lanczos
Aspect Ratio Conversion	Various Modes	Various Modes	Various Modes	Various Modes
Bezel Compensation	0-200 pixels	0-200 pixels	0-200 pixels	0-200

ABOUT AVAIVI

AVAIVI is a dynamic and innovative DPIIT recognized Startup Company for its commitment to driving excellence, fostering innovation, and contributing to Bharat's burgeoning entrepreneurial landscape. AVAIVI specializes in providing cutting-edge Audio-Visual Solutions, AI-based Software and Security & Surveillance Technology.

AV Technology: AVAIVI's state-of-the-art audio-visual solutions redefine how information is presented and shared. Our innovative AV solutions include interactive displays, digital signage, audio systems, and immersive multimedia experiences.

AI Software Suite: From predictive analytics to process optimization, our AI-based software applications empower organizations to make informed decisions, streamline operations, and stay ahead in a rapidly evolving digital landscape.

Video Surveillance: AVAIVI's expertise in CCTV security surveillance technology goes beyond traditional monitoring. Our comprehensive solutions encompass advanced camera systems, intelligent video analytics, and remote monitoring capabilities.