

ADTESU Video Wall Controller



SU40 Series

≡ Product Introduction:

ADTESU SU40 Series video wall controller is new generation professional image processing product which is based on the development of multi-windows, ultra-high definition and visual display control technology. Compare to other video wall controller in the market, ADTESU SU40 series has upgraded its system capacity and use 6.25 G base exchange processing chip, so that there is a significant advantage on the processing speed and professional display control. Meanwhile, ADTESU SU40 series controller supports multiple services, density of I/O interfaces and long term reliability. It is an all-in-one product which has 4K input and output processing, IP-Video Decoding, Monitoring control, Scene preset, Log management, User management and other advanced applications to meet a variety of professional system application requirements.

≡ Features:

- Pure-hardware FPGA Array, modular design, 6.25G/s base exchange processing speed.
- Support hot-swappable for I/O modules, control modules, redundant power supply. Easy to upgrade and maintenance.
- Support VGA, DVI, HDMI, CVBS, DP, SDI, HDBaseT, IP-Video, Fiber input sources and VGA, DVI, HDMI, SDI, CVBS, HDBaseT, Fiber output.
- Support 4K DP/HDMI/Dual-link DVI input and 4K HDMI output.
- Support VGA/DVI/HDMI sources self-adaption on single input card.
- Support HDCP2.0 for HDMI input and output.
- Support opening at least 8 windows on each two screens.
- Support up to 5 video wall groups control on single controller (more than 5 groups need to be customized) and work with variety of display terminals such as LCD, LED, DLP, projector.

- Support scene management, up to setup and display 255 scenes.
- Integrated with hybrid matrix function, output windows switching, friendly to system integrator.
- Support input source previewing and monitoring (refresh rate 24-30Hz).
- Variety of control methods such as RS232, Network, Keypad and compatible with third party control system.
- Support multi-user control management, software can be set through the operation authority, according to the authority level to develop different operating functions, different levels, different operating privileges, and can be set at any output authority range.
- B/S and C/S dual mode visualization control platform, support roaming, overlay, zoom in/out, multi-window switching, picture-in-picture, signal clip and a variety of display modes such as split screen, full screen and combination screen.
- Mobile visual management applications, support iPad, Surface.
- Support EDID, customize the output resolution according to the physical resolution of the display system.
- Advanced image decoding technology, compatible with a number of manufacturers' IPC signal and seamless access with variety resolutions such as 1080P, 720P, etc.

Hardware Information		System Structure		Pure Hardware FPGA Architecture											
Input/Output Signal		Operation system		No CPU and operating system											
		Board type		pure hardware pluggable, hot-swappable structure											
		Input type		VGA, DVI, HDMI, DP, CVBS, SDI, HD BaseT, IP-Video, fiber											
		Input channel		1080P up to 320 channel, 4K up to 80 channel											
		Output type		VGA, DVI, HDMI, CVBS, SDI, HD BaseT, fiber											
		Output channel		1080P up to 320 channel, 4K up to 80 channel											
Image Processing		Display mode		Roaming, overlay, zoom in/out, multi-windowing, scene switch, PIP, full screen and combination screen											
		Input resolution		Single channel 4K: duallink DVI/HDMI/DP											
		Signal switching time		Millisecond-level switching											
		Number of signal copy		More than the number of output ports											
		Max input/output resolution		3840*2160 @ 30 Hz											
		Single-screen window		At least 8 windows on each two screens											
		Hot-swappable		(support)											
		Power supply configuration		N+1 redundant power supply structure											
		Signal preview		(support)											
Control Function		Control structure		Software/hardware											
		Maximum scenes		255											
		Control method		RS232/Network/Touch screen/Keypad and compatible with third party control system											
		Management mode		B/S, C/S, mobile											
		Matrix control		Supports digital /analog matrix linkage control											
Stability		Safety		Hardware structure, no virus interference											
		MTBF		50000 h											
		Continuity		365 days, 7x24 hours operation											
Working Environment		Operating temperature		-15 ~ 60 °C											
		Storage temperature		-30 ~ 75 °C											
		Operating humidity		10-90% without condensation											
		Storage humidity		5-95% without condensation											
Device Size		SU40-4U		SU40-8U		SU40-16U		SU40-16UA		SU40-16UB		SU40-24U		SU40-32U	
Slot		Input	Output	Input	Output	Input	Output	Input	Output	Input	Output	Input	Output	Input	Output
Redundant PSU		4	4	9	8	20	20	29	15	15	29	40	40	80	80
		1+1		1+1		2+2		2+2		2+2		2+2		8+8	