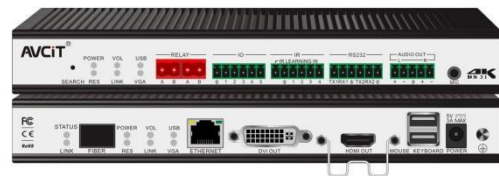DSIII-IN-2K

DSIII-IN-4KD

DSIII-OUT-2K

DSIII-OUT-4K

AVCIT DS3 is compact KVM encoder/decoder, designed to transmit FHD or UHD video and HID over standard Gigabit Ethernet with low latency, low bitrate(4-20Mbps) and high image quality; Benefiting from its no-server design, any single encoder/decoder's bug will not affect the entire system, It will surely reduce the risk of system, and add much value on your design of mission critical command & control center.

What's different?

AVCIT IP Based & KVM System provides all-in-one Command Center Solutions, which is combined functions of dynamic KVM, LED/DLP/LCD Wall Control and environment control. Compared to conventional command center solution by video wall matrix, there are following highlighting features:

✓ No standalone KVM server required
✓ No limit on the channels of computer and the connected monitor by one mouse + keyboard

Features of DS3 Node

DS3 node is KVM encoder and decoder, for operator's monitor at workspace or KVM sources, so that the operator can remotely access and control up to 8 computers/channels on one monitor simultaneously;

General

✓ No requirement of IGMP enabled at network switch
✓ Transmit high quality content over 1GB network only
✓ Simultaneously transmit up to 50 channels high quality content over 1GB network
✓ POE supported, no standalone PSU required for encoder/decoder
✓ Redundant power supply by both PSU and POE available
✓ Redundant signal transmission over fiber + copper available
✓ Native capability to decode 3rd party RTSP steams on video wall or KVM workspace

- ✓ Encoder with HDMI loop out function to local monitor
- ✓ Patented locking kit for HDMI, compatible with most of the HDMI cable, no need dedicated HDMI connector

DS3 KVM

- ✓ No standalone KVM server required
- ✓ Cross Display Switching features, unlimited monitor connected by one mouse + keyboard
- ✓ Access up to 8 computers/channels simultaneously, and have multi-viewing with multiple layout, on any monitor of your workspace
- ✓ Support operation by both keyboard/mouse and touch monitor
- ✓ Support accessing workstation/server with multiple-head graphic card
- ✓ Support accessing most of the OS in the market, such as Window7/8/10, Mac, Linux, etc.
- ✓ Preview all source real-time at OSD, what you see is what you GET
- ✓ Monitoring who have accessed to a server, and disconnect it with EXCLUSIVE permission
- ✓ Drag/drop Control what to display on other's operator's monitor
- ✓ Drag/drop/resize any sources on all his connected monitor
- ✓ Push any remotely accessed content to video wall by hot key seamlessly
- ✓ Fast projecting any content from one monitor to a connected monitor
- ✓ 4 permissions levels available for operators, EXCLUSIVE, SHARE, VIEW ONLY and PRIVATE
- ✓ Water ripple functions to locate the mouse cursor
- ✓ Layout linkage function to sync a layout to the other connected monitor
- ✓ Audio decoding on a multi-viewing monitor automatically follow the mouse cursor, or mixed

Technical Specification

Interface Port						
Type	4K Encoder		4K Decoder	2K Encoder		2K Decoder
Model#	DSIII-IN-4K	DSIII-IN-4KD	DSIII-OUT-4K	DSIII-IN-2K	DSIII-IN-2KD	DSIII-OUT-2K
Video Input	1 x HDMI	1 x HDMI, 1 x DisplayPort	---	1 x HDMI	DVI-D or DVI-I	---
Video Output	1 x HDMI loop	1 x HDMI loop	1 x HDMI, 1 x DVI	1 x HDMI loop	---	1 x HDMI, 1 x DVI
USB	1 x USB		2 x USB	1 x USB		2 x USB
RS232	1					
RS485	1					
IR & I/O	Totally 3					
Audio in/out	1 IN + 1 OUT					
Ethernet	RJ45					
SFP(Optional)	SFP Duplex LC Connectors					
Redundant Power	Optional					
Technical Parameters						
Video Compression	H.265/H.264					
Video Resolutions	Up to 3840x2160					
Streaming Protocol	RTSP					
Bit Rates	Configurable 4-20Mbps per streams					
Copy Protection	HDCP 1.4, 3DES					
Latency	Up to 21ms					

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Consumption	15-30W

Requirement of Ethernet Switch	
Switching Capacity	≥ 598Gbps(more than 40 node)
Forwarding Performance	≥ 222Mpps(more than 40 node)
POE Feature	Required(or choose 3rd party POE injector)
Recommend Model	48port: HUAWEI S5731-H48P4XC or S5730S-48C-PWR-EI, and max 3-4pcs to stack; For project that need more than 192 node, please use Core Switch, i.e. HUAWEI S6720S-26Q-EI-24S-AC or S6720-32C-SI-AC

Physical Parameters			
Dimension/NW of node	✓ DSIII-IN-4K ✓ DSIII-IN-4KD ✓ DSIII-IN-2K ✓ DSIII-IN-2KD ✓ DSIII-OUT-4K ✓ DSIII-OUT-2K	220mm 29mm 138mm	220x138x29mm 0.85kg/node
Carton	285x220x120mm per node		

System Topology