

AVC-HDMI1818

18x18 seamless modular HDMI matrix switch(with audio)



Description

AVC-HDMI1818 modular matrix switch with audio port, support HDMI 1.4 ,HDCP, and DVI 1.0 . Support for 12-bit color depth all HDTV resolutions including 1080p/60,and PC resolution up to 1920 * 1200. It enables cross seamless switching from any of 18 HDMI input to any of 18 HDMI output.

Exclusive central controller feature as an option, Users are able to control the matrix switcher, and even more IR and RS232 devices by any authorize iOS/android panel in a LAN, without any other controller.

Features

- ✧ Full true 3D,seamless switching function;
- ✧ Input and output signal support all digital and analog formats, such as AV, VGA, YPbPr, DVI, HDMI, SDI, Opric Fiber,RJ45,
- ✧ Support HDMI input audio loop out, HDMI output audio de-embedder of features;
- ✧ Long wire drive capability;
- ✧ Connection prompt function;

- ✧ Modular structure, hot-swap feature, easy to upgrade and maintenance, Max NO. Of input and output channels:18x18;



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- ✧ **Compatible with HDCP:** such as blue DVD,GAME BOX etc;
- ✧ **Audio access features;** VIDEO signal input board, VGA signal input board with audio interface. Can switch video by cooperating with audio de-embedder function;
- ✧ The **EDID** support computing capabilities; Automatic calculation of intersection and collection. Matrix switcher can obtain the best resolution change the resolution by triggering signal source while one input signal switching to display device with different resolution (automatic mode);
- ✧ The **EDID support switching function;** read back EDID from any output display device and switch to another output display device;
- ✧ **Power off memory** and scenario memory features.can save and use 18 kind of switch state.

Parameter

Protocols	Support HDCP1.4 protocol (part) , support HDCP1.3 Protocols , the Protocols is compatible DVI1.0
Gain	0 dB
Pixel Bandwidth	225MHz, all-digital
Interface bandwidth	3.25Gbps per channel, total 15G(Max), all-digital
Maximum supported resolution	Normal-PC: 1920x1200 @ 60_24bit, HDPC: 1920x1200P @ 60_24bit,
	HDTV:1920x1080P @ 60_36bit
Bit Clock Jitter (Clock Jitter)	<0.15 Tbit
Bit rise time (Risetime)	<0.3Tbit (20% - 80%)
Bit fall time (Falltime)	<0.3Tbit (20% - 80%)
The maximum propagation delay	5nS (± 1nS)
Switching speed	200 ns (the time)
Signal Type	HDMI 1.4 specification HDMI-A all-digital TMDS signal
Video Input	
Interface	HDMI female connectors
Signal Strength	T.M.D.S + /-0.4VPP
Minimum / maximum level	T.M.D.S 2.9V/3.3V



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Enter EDID	EDID site erasable
Impedance	75 Ω
Maximum DC offset error	15mV
Recommended maximum input from	Less than 20 m , at 1920x1200 @ 60 when (recommended certified HDMI dedicated wire, such as Molex TM wire)
Video Output	
Interface	HDMI female connectors
Minimum / maximum level	T T.M.D.S. 2.9V/3.3V
Impedance	50 Ω
Recommended maximum output distance	Less than 20 m , at 1920x1200 @ 60 when (recommended certified HDMI dedicated wire, the wire as Molex TM)
Control types	
Control Interface	RS-232, 9 - pin female D -type interface
Baud rate and protocol	Baud rate: 9600, Data bits: 8 Stop bits: 1 , no parity
Specification	
Power supply	100VAC ~ 240VAC, 50/60 Hz, international adaptive power
Power	Redundant dual power, Rated power 200w, peak power 600w
Temperature	Storage temperature : -20 ° ~ +70 ° C
Humidity	Storage, use Humidity: 10 % to 90%

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