

# SW-42-AP

## 18 Gbps 4x2 HDMI Video Matrix

### FEATURE:

- HDMI 2.0, HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant
- Four 18G HDMI 2.0 video inputs supporting up to 4K60 444 resolution
- Two 18G HDMI 2.0 video outputs supporting up to 4K60 444 resolution
- Both outputs can be individually scaled for 4K→1080p or HDBaseT mode
- Automatic RS232, CEC and IR control of the display device power state
- Two sets of de-embedded audio analogue and TosLink outputs, for both outputs
- ARC decoding to the TosLink audio outputs only
- Test Pattern mode for testing output signal integrity to the display
- Built-in Web GUI for LAN control
- Four methods of control: Front panel, RS232, IR and LAN



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This product is an 18G HDMI video switcher with 4 HDMI inputs and 2 scaling HDMI outputs. Each input and output supports up to 4K60 444 HDMI 18G video. The outputs can be individually scaled for 1080p or HDBaseT compatibility. De-embedded audio as analogue L+ R and optical TosLink is available for both outputs. The Matrix Switcher can automatically control the display device using RS232, CEC or IR when the last input signal is lost, or when the first video input is detected. This switcher can be controlled from the front panel, RS232, IR, or LAN.



## Switchers

18 Gbps 4x2 HDMI Video Matrix



SPECIFICATIONS:

Technical

|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| HDMI Compliance          | HDMI 2.0                                                                                                              |
| HDCP Compliance          | HDCP 2.2 and HDCP 1.4                                                                                                 |
| Video Bandwidth          | 18Gbps                                                                                                                |
| Video Resolution         | 4K2K 50/60Hz 4:4:4                                                                                                    |
|                          | 4K2K 50/60Hz 4:2:0                                                                                                    |
|                          | 4K2K 30Hz 4:4:4                                                                                                       |
|                          | 1080p,1080i,720p,720i,480p,480i                                                                                       |
|                          | All HDMI 3D TV formats                                                                                                |
| Output Scaling           | All PC resolutions including 1920x1200"                                                                               |
|                          | 4K to 1080p                                                                                                           |
| Color Space              | 4K to HDBaseT (Down-scale to no more than 10.2Gbps)                                                                   |
|                          | RGB,YCbCr4:4:4,YCbCr4:2:2,YCbCr 4:2:0                                                                                 |
| Color Depth              | 8-bit, 10-bit, 12-bit [1080P, 4K30Hz, 4K60Hz (YCbCr 4:2:0)]                                                           |
|                          | 8-bit [4K60Hz (YCbCr4:4:4)]                                                                                           |
| 3D Support               | Yes                                                                                                                   |
| HDMI Audio Formats       | PCM2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX,DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD |
| HDR formats              | HDR10, HDR10+, Dolby Vision, HLG                                                                                      |
| L/R Audio Formats        | PCM2.0CH (Note: If ARC function is turned on, the audio port will mute.)                                              |
| Optical Audio Formats    | PCM2.0, Dolby Digital / Plus, DTS                                                                                     |
| Audio Frequency Response | 20Hz to 20kHz, ±3dB                                                                                                   |
| RS232 Control            | 57600, No parity, 8 data bits, 1 stop bit, No handshaking                                                             |
| RS232-A and RS232-B      | Configurable from 4800 to 115200 baud; 7 or 8 bits; none, odd or even parity and 1 or 2 stop bits.                    |
| ESD Protection           | Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)                                                |

Connections

|               |                                            |
|---------------|--------------------------------------------|
| Input Ports   | 4x HDMI Type A [19-pin female]             |
|               | 2x HDMI Type A [19-pin female]             |
| Output Ports  | 2x L/R audio out [3-pin phoenix connector] |
|               | 2x OPTICAL audio out [S/PDIF]              |
|               | 2x RS232 A/B [3-pin phoenix connector]     |
| Control Ports | 1x LAN [RJ45]                              |
|               | 3x RS232 [3-pin phoenix connector]         |
|               | 1x IR IN [3.5mm Stereo Mini-jack]          |
|               | 2x IR OUT A/B [3.5mm Stereo Mini-jack]     |
|               |                                            |

Mechanical

|                                                                   |                                      |               |               |
|-------------------------------------------------------------------|--------------------------------------|---------------|---------------|
| Housing                                                           | Metal Enclosure                      |               |               |
| Color                                                             | Black                                |               |               |
| Dimensions                                                        | 218mm[W]×140mm[D]×43mm[H]            |               |               |
| Weight                                                            | 1050g                                |               |               |
| Power Supply                                                      | Input: AC100~240V 50/60Hz            |               |               |
|                                                                   | Output: DC12V/1A (Locking connector) |               |               |
| Power Consumption (Max)                                           | 4.3W (max)                           |               |               |
| Operation Temperature                                             | 32 - 104°F / 0 - 40°C                |               |               |
| Storage temperature                                               | -4 - 140°F / -20 - 60°C              |               |               |
| Relative Humidity                                                 | 20 - 90% RH (no condensation)        |               |               |
| Resolution / Cable length                                         | 4K60 -                               | 4K30-         | 1080P60 -     |
|                                                                   | Feet / Meters                        | Feet / Meters | Feet / Meters |
| HDMI IN / OUT                                                     | 16ft / 5M                            | 32ft / 10M    | 50ft / 15M    |
| The use of "Premium High Speed HDMI" cable is highly recommended. |                                      |               |               |