VigilLink

VLMX-0402E

Front side

Back side

4x2 HDMI 2.0 Matrix with output 4K to 1080p downscaling and display control 18Gbps

This product is an 18G HDMI video switcher with 4 HDMI inputs and 2 scaling HDMI outputs. Each input and output support up to 4K60 444 HDMI 18G video. The outputs can be individually scaled for 1080p or HDBaseT compatibility. De-embedded audio as analog L+R and optical TosLink are 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, 232, IR, or LAN.

Featured Highlights

- 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 analog 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

Connecting for a Smarter Future

SPECIFICATIONS

HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18 Gbps
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 All PC resolutions including 1920 x 1200
3D Support	Yes
Output Scaling	4K to 1080p 4K to HDBaseT (Down-scale to no more than 10.2Gbps)
Color Space	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)]
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 the 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)

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	4.3W (max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (Non-Condensation)

CONNECTIONS

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

Resolution / Cable Length	4K60 - Feet /Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M

The use of "Premium High Speed HDMI" cable is highly recommended.

APPLICATION EXAMPLE

Applications   Digital Signage, Conference Rooms, Operating Rooms and Audio-Video Rooms

Color Legend
- LAN Connection
- Fiber Connection
- Cooper Cable
- Audio
- USB
- HDMI
- DisplayPort
- Control

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