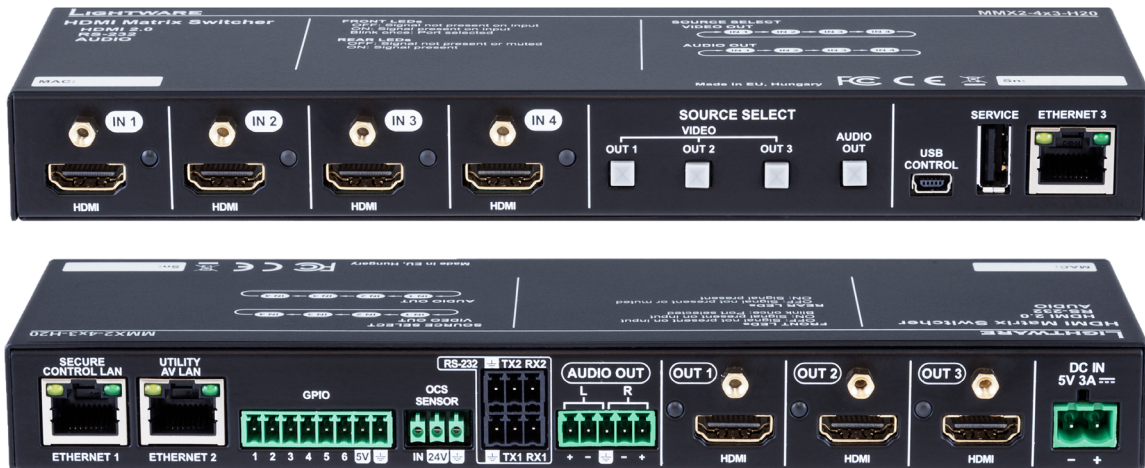


HDMI 2.0 Switcher with breakout Audio, Occupancy Sensor input and various control features

Lightware's HDMI2.0 switcher allows users to switch between in-room computers and BYOD devices with video and audio signals up to 4k@60Hz 4:4:4.



Bring Collaboration Spaces to the Next Level

MMX2-4x1-H20 and **MMX2-4x3-H20** are unique, compact size matrix switchers. They have **four HDMI inputs** and either one or three independent HDMI outputs. **Audio can be de-embedded** from the HDMI signal to a balanced **5-pole Phoenix (Euroblock) port**. The volume of the audio signal can be modified at the output. The devices are capable to transfer video **signal with resolutions up to 4K60** and are HDCP2.2 compliant.

Occupancy sensor input, **GPIO** and **RS-232** ports can be used to integrate other devices into the system. The device is configurable via the Lightware Device Controller software.

Automated room control features are also included through GPIO ports, besides of RS-232 and occupancy sensor connectivity. The switcher also thrives when it comes to audio capabilities, offering analog audio de-embedding feature.

Additional Features and Capabilities

Security is always a key concern in the corporate world, therefore our engineers ensured that the MMX2-4x1-H20 & MMX2-4x3-H20 adheres to the strictest security standards. A secure corporate Ethernet interface ensures secure device control and configuration **under the SSH, SSL and HTTPS standards**.

Features

- Dedicated secure corporate and room utility Ethernet connectivity
- Occupancy sensor connection (with 24V power supply)
- Configurable Autoselect on video inputs
- RS-232 ports for device control
- Passive, noiseless cooling
- Supports HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps)
- SSH, SSL, HTTPS for IT security
- Audio de-embedding
- Multiple Ethernet network configurations fitting various corporate network topologies and IT security standards (e.g. 802.1x compliance)
- GPIO control ports
- Device control via Ethernet (TCP/IP)
- Uncompressed video up to 18 Gbps datarate (600 MHz pixel clock)

Specifications

Video	Resolution		Up to UHD/4k@60Hz 4:4:4	
	Signal Type		HDMI 2.0, HDMI 1.x, DVI	
	Maximum data rate		18 Gbps	
	Maximum pixel clock		600 MHz	
	Content protections		HDCP 1.x, HDCP 2.2	
	Connector type (IN)		4x HDMI receptacle type A with screw locking option	
	Connector type (OUT)		3x HDMI receptacle type A with screw locking option	
	Video processing		Signal parameter measurement	
Audio	Audio mode		Simultaneous pass-through and de-embedding to the Audio layer	
	Supported audio formats for pass-through		All HDMI 2.0 audio formats	
	Supported audio formats for de-embedding	Uncompressed		LPCM (up to 8 channels, 192 kHz, 24 bits per sample)
		Compressed		Dolby Digital, DTS
	Compressed HBR		Dolby TrueHD, DTS-HD	
Control	Ethernet	Control		1x 100Base-T via RJ-45 for Secure Control
		User Data		1x 100Base-T via RJ-45 for Utility AV 1x 100Base-T via RJ-45 for Configurable Ethernet
		Audio		1x 100Base-T via RJ-45 for Dante audio (output)
		Connector		2x 3Pol Phoenix
	RS232	Symbol rate		between 9600 and 115200 baud
		Configuration		Parity: none, odd or even Stopbits: 1 or 2
		Connectors		1x mini USB Type B (reserved for service) 1x USB Type A (reserved for future developments)
	Room Occupancy Sensor	Connector		3Pol Phoenix
	GPIO	Connector		8Pol Phoenix
	General	Powering		External 5V/3A wall adaptor
Dimensions		Width		221 mm
		Height		26 mm
		Depth		68 mm
Operating conditions		Ambient temperature		0-50°C
		Relative humidity		0-90% (non-condensing)
Transportation conditions		Ambient temperature		-20-70°C
		Relative humidity		0-95% (non-condensing)
Compliance				EN 55032:2015 IEC 61000-3-3:2013+AMD1:2017 FCC CFR Title 47, Part 15, Subpart B
Warranty				3 years