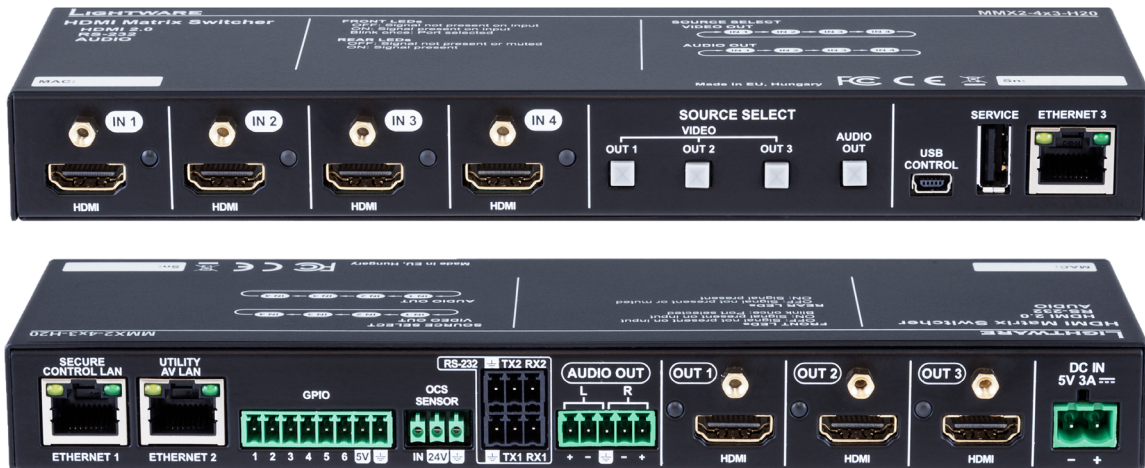


### HDMI 2.0 Switcher with breakout Audio, Occupancy Sensor input and various control features

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

<b>Video</b>	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	
<b>Audio</b>	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	
<b>Control</b>	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
	<b>General</b>	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