MMX8×4-HT400MC

HDBT™

visual engineering LIGHTWARE

HDMI and TPS Matrix Switcher with Special Audio Inputs

4K UHD | 3D | RS-232 | HDCP | EDID

MMX8x4-HT400MC is a standalone matrix switcher specifically designed for conference room environments. It has eight video inputs (four HDMI and four TPS) and four HDMI video outputs. 4K / UHD (30Hz RGB 4:4:4, 60Hz YCbCr 4:2:0), 3D capabilities and HDCP are fully supported.

MMX8x4-HT400MC has a dedicated Special Audio Input block with input ports for microphone and line-in. The built-in sound mixer allows for free mixing of the microphone or the line-in and the de-embedded audio from one of the input HDMI signals.

The Special Audio Input block includes an automated voiceover with ducking function allowing the volume of the voice of a person speaking into the microphone to be automatically focused, and the volume of the rest of the sounds to be lowered as soon as the presenter starts speaking.
The device also has one shared, balanced 5-pole Phoenix audio output for de-embedding purposes of any video signal inputs or for the sound mix provided by the built-in sound mixer.

Using factory, custom or transparent EDID emulation users can fix and lock EDID data on each input connector. Advanced EDID Management forces the required resolution from any video source and fixes the output format to conform to the system requirements.

The unit can be controlled via RS-232, Ethernet or USB ports, but it also offers RS-232, Serial and IR command injection capabilities allowing to send any control command directly from the LAN connection to end points.

The built-in Event Manager feature provides control via RS-232 and IR ports.

The MMX8x4-HT400MC is compatible with both HDBaseT™ extenders and HDBaseT™ compliant displays.

Highlight Features

- 8x4 multiport matrix switcher with HDMI and TPS ports
- 4K / UHD (30Hz RGB 4:4:4, 60Hz YCbCr 4:2:0) and 3D capabilities
- 4x HDMI inputs + 4x TPS inputs
- 4x HDMI outputs
- 1x video signal-independent, shared, analog audio output
- Special Audio Input block for microphone and line-in
- Built-in DSP, sound mixer and ducking function for voiceover
- 1x Ethernet input port for device control
- 2x bi-directional RS-232 ports
- 2x Serial/IR ports for display control
- 2x IR ports for display control
- Front panel LCD and jog dial button
- Event Manager built-in control feature

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List of reachable distances at various resolutions:

Resolution	Pixel clock rate	OM2 (50/125)	OM3 (50/125)	OM4 (50/125)
		CAT5e AWG24	CAT7 AWG26	CAT7 AWG23
1024x768@60Hz	65 MHz	60 m	80 m	80 m
1280x720p@60Hz	73.8 MHz	60 m	80 m	80 m
1920x1080p@60Hz (24bpp)	148.5 MHz	60 m	80 m	80 m
1920x1200@60Hz	152.9 MHz	60 m	80 m	80 m
1600x1200@60Hz	162 MHz	60 m	80 m	80 m
1920x1080@60Hz (36bpp)	223 MHz	60 m	80 m	80 m
3840x2160@30Hz UHD	297 MHz	40 m	40 m	40 m
4096x2160@30Hz 4K	297 MHz	40 m	40 m	40 m

CAT7 SFTPAWG23 cable is always recommended

Application diagram: