

Celerity *CT-MMX Series* 4K Modular Matrix Switcher with Videowall Processor

The Most Cost-Effective Videowall Solution

Overview

Celerity CT-MMX Series are the 4K Modular Seamless Matrix Switchers with the integrated Videowall Processors. CT-MMX Series matrices apply the FPGA hardware, high-speed Crosspoint video bus, and Embedded Operating System technologies to provide the real-time scaling, switching, and the best video/picture quality for videowall and video distribution applications.

Thanks to benefit of the robust and purpose-built hardware design, Celerity CT-MMX Series are very reliable, flexible, expandable, and affordable. The hot-swappable Input/Output cards can be installed in the CT-MMX chassis at any time according to the requirements and demands without interrupting the continuous operation of the system. That makes the CT-MMX is easy to maintain.

Any input source can be simultaneously routed to any display or all displays and a videowall. This is especially useful for the video/audio application that possesses both the multiple displays and a videowall.

Over the Celerity UFO (Universal Fiber Optics) and CT-MMX MPO Input or Output card, CT-MMX supports the high-quality signal transmission up to 1,000 feet.

The user can easily configure the CT-MMX system via the touchable front panel LCD display, WEB GUI, and third-party control as well.

CT-MMX Series are ideal solution for the multiple sources and displays installation, such as sport bars, restaurants, conference rooms, and control rooms, etc.



Front Panel of CT-MMX-3U

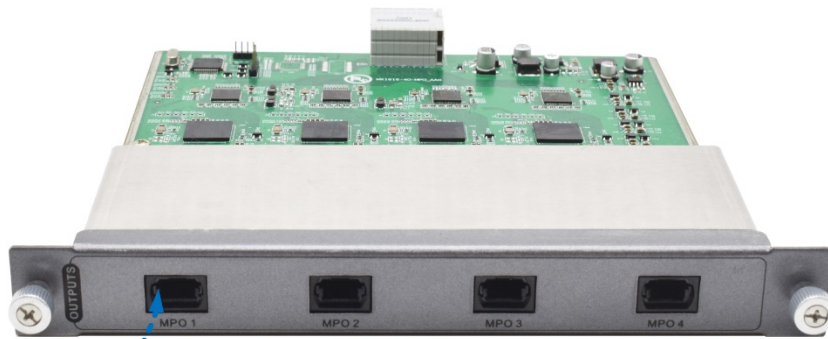


Rear Panel of CT-MMX3U

Key Features:

- High-speed Crosspoint video bus and FPGA-based hardware
- Modular design
- Hot-swappable input/output cards
- Seamless switching and scaling
- Video wall support
- Output resolution up to 4K@30Hz with 4:4:4 Chroma Subsampling
- HDCP 1.4
- Advance EDID management
- De-embedded audio
- Multiple control methods, touchable front panel LCD display, RS232 and TCP/IP control by WEB GUI and/or third-party control processors

Signal Extension



CT-MMX-OC-4MPO
4-Channel MPO Output Card



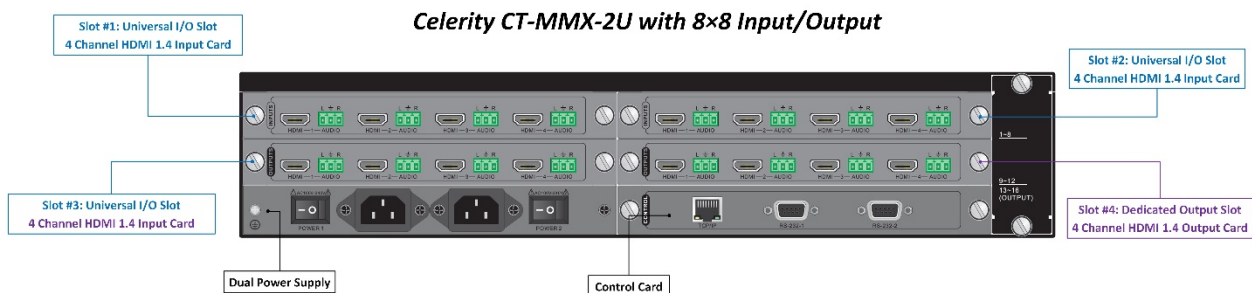
Celerity Fiber Optic Cable

Chassis

Model Number	Chassis	I/O Card Capacity (Slots)	Universal I/O Slots	Dedicated Output Slots	Maximum 4K UHD Inputs	Maximum 4K UHD Outputs	Expandable I/O Configuration
CT-MMX-2U	2RU	4	3	1	12	12	4x4, 4x8, 4x12, 8x8, 12x4
CT-MMX-3U	3RU	8	6	2	24	28	24x8, 8x24, 16x16, 8x16, etc.

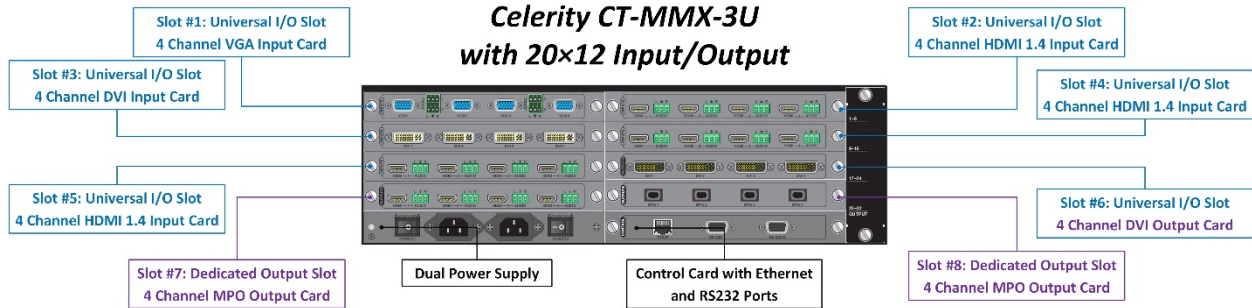
CT-MMX-2U Chassis

CT-MMX-2U has four slots in total, three of them are the Universal Slots which mean they accept both of input and output cards, the last slot is the dedicated output slot which means it only accept the output cards. The maximum 4K outputs of CT-MMX-2U are 12, and the maximum 4K inputs of it are also 12.



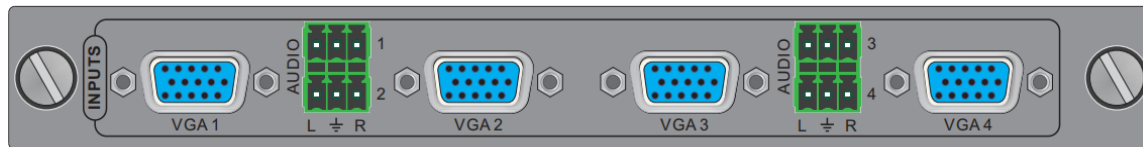
CT-MMX-3U Chassis

CT-MMX-3U has eight slots in total, six of them are the Universal Slots which mean they accept both of input and output cards, the last two slots are the dedicated output slot which means it only accept the output cards. The maximum 4K outputs of CT-MMX-3U are 24, and the maximum 4K inputs of it are also 28.



Input Cards

4-Channel VGA Input Card with Audio

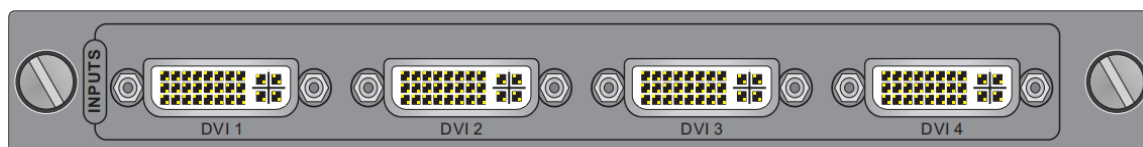


Model Number: CT-MMX-IC-4VGA

- 4 VGA/YPbPr inputs resolution up to 1920 × 1080@60hz
- 10-bit ADC conversion maximizes VGA picture quality
- RCA embedding, following with video switching
- Maximum pixel resolution clock 165M
- Firmware upgrade on board

4-Channel DVI Input Card

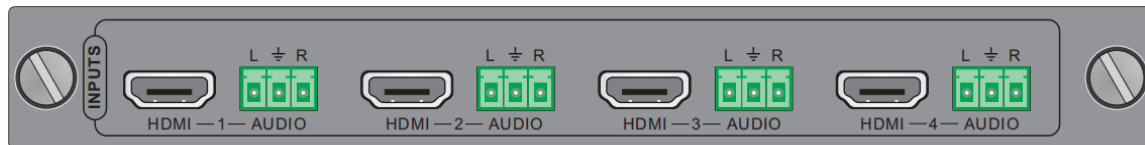
Model Number: CT-MMX-IC-4DVI



- 4 DVI inputs resolution up to 1920 × 1080@60hz
- EDID management
- Firmware upgrade on board

4-Channel HDMI1.4 Input Card with Audio

Model Number: CT-MMX-IC-4HDMI14



- 4 HDMI1.4 inputs resolution up to 4K@30Hz with 4:4:4
- Support HDCP1.4
- RCA embedding
- EDID management
- Firmware upgrade on board

4Channel MPO Input card

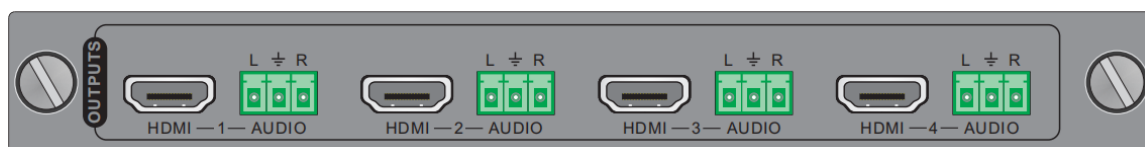
Model Number: CT-MMX-IC-4MPO



- 4 MPO inputs resolution up to 4K@30Hz with 4:4:4
- Support HDCP1.4
- EDID management
- Firmware upgrade on board

Output Cards

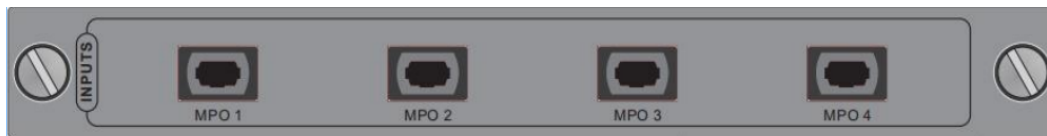
4-Channel HDMI1.4 Output Card



Model Number: CT-MMX-OC-4HDMI14

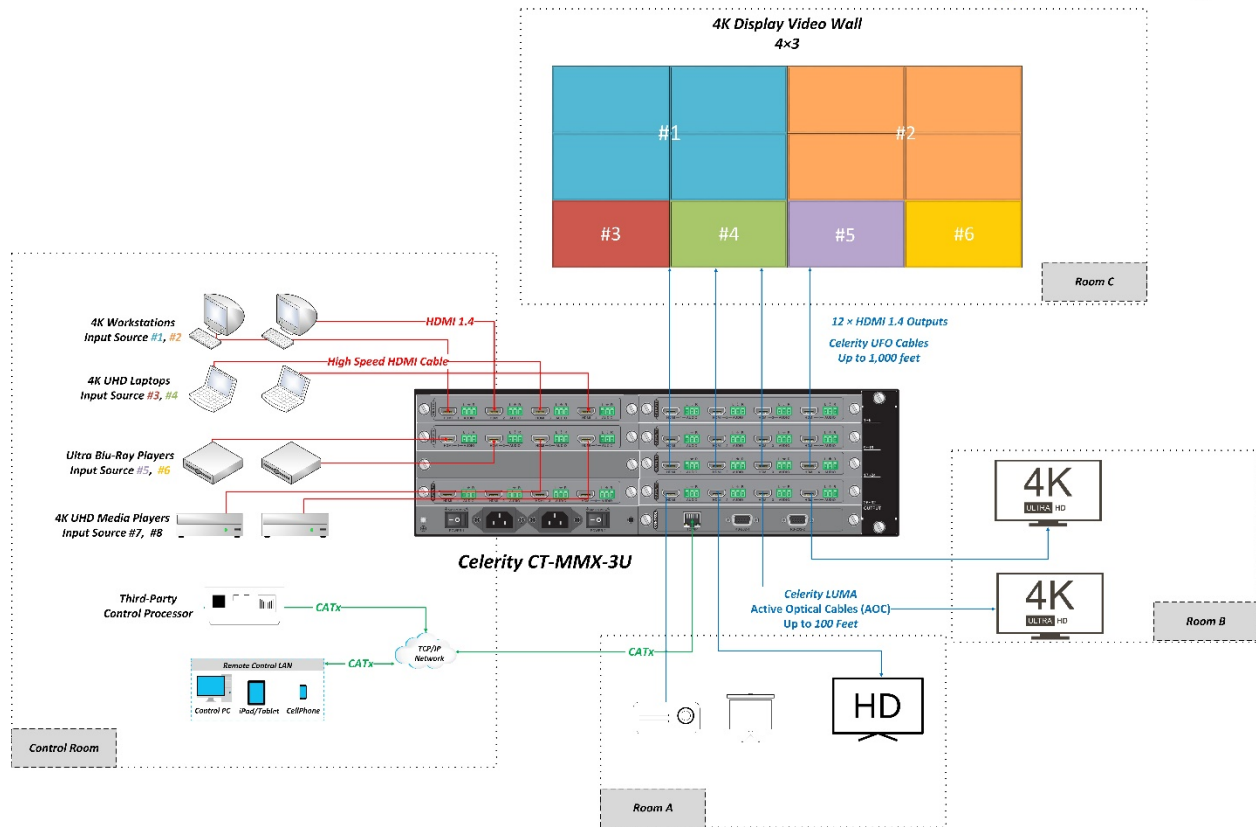
- 4 HDMI1.4 outputs resolution including: 3840 × 2160, 1920 × 1200, 1920 × 1080, 1280 × 1024, 1280 × 720, 1366 × 768, 800 × 600
- Automatic detection of display resolution
- HDCP 1.4
- RCA audio de-embedded
- Seamless switching
- Videowall support
- EDID management
- Firmware upgrade on board

4-Channel MPO Output Card



- 4 MPO outputs resolution including: 3840 × 2160, 1920 × 1200, 1920 × 1080, 1280 × 1024, 1280 × 720, 1366 × 768, 800 × 600
- Automatic detection of display resolution
- HDCP 1.4
- Seamless switching
- Videowall support
- EDID management
- Firmware upgrade on board

System Diagram



Related Products

Products	Description
Celebrity Universal Fiber Optic HDMI	Support HDMI 2.0b, complete set, detachable HDMI TX and RX connector, bi-directional fiber optic cable, standard or customized length up to 1000 feet
Celerity Luma Active Optical Cable HDMI	Support HDMI 2.0, up to 100 feet, CL2-Rated Cable

Celerity Universal Fiber Optic HDMI 8K HDR 48G
UFO-8KH-TXRX COO USA



Luma HDMI AOC



For more information, please contact info@celeritytek.com

Specifications are subject to change without notice.

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