MM6-0808C/1616C/3636C
MM6-0808CR/1616CR/3636CR
Modular Matrix Switcher of MM6 Series

FEATURES

- HDMI 2.0b and HDCP 2.2 compliant
- HDMI 18Gbps video bandwidth, up to 4K60 YCbCr 4:4:4 24bit
- Pluggable card structure (One card with four channels)
- Support 8/16/36 channel video signal inputs and outputs
- Multiple input/output cards with HDMI, DVI-U (DVI/VGA/YPbPr/CVBS), VGA, 3G/HD/SD-SDI, HDBaseT and optical fiber
- Video resolution up to 1920×1200p60hz (2K series card), 3840x2160p60hz (4K series card)
- Seamless switching without image tear, black screen or flicker in the switching process
- Based on Gen-Lock video wall splicing technology, the latency between any output channel is less than 0.1ms
- Any splicing modes in the allowed range of 8x8~36x36, especially suitable for LCD/LED video wall
- Multiple output resolutions to meet the needs of different types of display devices
- Adopt pure hardware high-speed matrix switching chip with high integration
- Built-in signal equalization, signal recovery and signal redriver
- Built-in video quality enhancement, output video quality can be adjusted
- Built-in HDCP processing logic to avoid HDCP compatibility issues
- Input cards support audio embedding, output cards support audio de-embedding
- Analog audio embedding supports LPCM 2.0CH, analog audio and video signals are input synchronously
- Analog audio de-embedding supports LPCM 2.0CH, analog audio and video signals are output synchronously
- Up to 64 kinds of scene presets can be recalled
- Advanced EDID management (Internal EDID or copy from any output devices)
- Control via front panel buttons, IR, RS-232, TCP/IP, Web GUI or PC program
- Built-in intelligent control system with user-friendly GUI
- Silent fan design, noiseless, stable performance
- AC power port with built-in power module
- Standard rack size design, convenient for installation

SPECIFICATIONS

MODEL	MM6-0808C/CR	MM6-1616C/CR	MM6-3636C/CR
Description	8x8 modular chassis / 8x8 with redundant power supply	16x16 modular chassis / 16x16 with redundant power supply	36x36 modular chassis/ 36x36 with redundant power supply
HDMI Compliance	HDMI 1.4 (2K/1080P series card), HDMI 2.0b (4K series card)		
HDCP Compliance	HDCP 1.4 (2K/1080P series card), HDCP2.2 (4K series card)		
Video Bandwidth	600MHz/18Gbps		
Video Resolution	1920x1200p60Hz (2K/1080P series card) 3840x2160p60Hz 4:4:4 (4K series card)		
Color Depth	2K/1080P series card: 8/10/12-bit (1080P60Hz) 4K series card: 8/10/12-bit (4K30Hz); 8-bit (4K60Hz 4:4:4)		
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0		
Audio Formats	HDMI audio: LPCM 2.0 / 5.1 / 7.1CH Analog audio: LPCM 2.0CH		
Transmission Distance	HDMI: 1080P/15 meters, 4K30/10 meters, 4K60/5 meters HDBT: 1080P/70 meters/100 meters/150 meters; 4K/40 meters/70 meters/120 meters		
ESD Protection	Human body model — ± 8KV (Air-gap discharge) & ± 4KV (Contact discharge)		
Input Ports	2 x Input card (8x8 Matrix); 4 x Input card (16x16 Matrix); 9 x Input card (36x36 Matrix)		
Output Ports	2 x Output card (8x8 Matrix); 4 x Output card (16x16 Matrix); 9 x Output card (36x36 Matrix)		
Control Ports	1 x Master control card, including the following ports: 1 x RS-232 IN [3-pin Phoenix Connector] 1 x RS-232 OUT [3-pin Phoenix Connector] 1 x RESET [Reset button for the central control system] 3 x LAN [RJ45]		
Housing	Metal Enclosure		
Color	Black		
Dimension (W*D*H)	483*377*89mm	483*379*133mm	483*378*266mm
Weight	5.95KG(Without cards)	8.62KG(Without cards)	15.4KG(Without cards)
Consumption	40W ~ 190W (Match with different input/output cards)	80W ~ 320W (Match with different input/output cards)	200W ~ 840W (Match with different input/output cards)
Power Supply	AC 100 - 240V, 50/60Hz		
OperatingTemperature	0°C ~ 40°C / 32°F ~ 104°F		
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F		
Relative Humidity	20 ~ 90% RH (no condensation)		

About VitBest

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INPUT AND OUTPUT CARDS FOR MM6-0808C/1616C/3636C AND MM6-0808CR/1616CR/3636CR

INPUT CARDS

4K60 Switching Input Cards

MC6-IN-HDMI
HDMI Input Card (4K60)

- 4-channel HDMI input signals
- HDMI Port: HDMI Type A
- Support 640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x768p60Hz, 1280x800p60Hz, 1280x1024p60Hz, 1360x768p60Hz, 1400x1050p60Hz, 1600x1200p60Hz, 1920x1080p60Hz, 1920x1200p60Hz; 720x480i59.94Hz (480i59), 720x480p59.94Hz (480p59), 720x576i50Hz (576i50), 720x576p50Hz (576p50), 1280x720p50Hz (720p50), 1280x720p59.94Hz (720p59), 1280x720p60Hz (720p60), 1920x1080i50Hz (1080i50), 1920x1080i59.94Hz (1080i59), 1920x1080i60Hz(1080i60), 1920x1080p23.98Hz (1080p23), 1920x1080p24Hz (1080p24), 1920x1080p25Hz (1080p25), 1920x1080p29.97Hz (1080p29), 1920x1080p30Hz (1080p30), 1920x1080p50Hz (1080p50), 1920x1080p59.94Hz (1080p59), 1920x1080p60Hz (1080p60), 1920x1200p60Hz (1200p60), 3840x2160p24(2160p24), 3840x2160p25(2160p25), 3840x2160p30(2160p30), 3840x2160p50(2160p50), 3840x2160p60(2160p60), 4096x2160p24(2160p24), 4096x2160p25(2160p25), 4096x2160p30(2160p30), 4096x2160p50(2160p50),4096x2160p60(2160p60)
- HDMI 2.0b compliant
- HDCP 2.2 compliant
- Video Bandwidth: 18Gbps
- Color Depth: 8/10/12-bit
- Audio Port: 3.81mm Phoenix Connector
- Support external audio source input (LPCM 2.0CH)

MC6-IN-HDBT-150
HDBT 150m Input Card (4K60)

For VitBest ED-150-TRA only

- 4-channel HDBT input signals
- HDBT Port: RJ45
- Support 640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x768p60Hz, 1280x800p60Hz, 1280x1024p60Hz, 1360x768p60Hz, 1400x1050p60Hz, 1600x1200p60Hz, 1920x1080p60Hz, 1920x1200p60Hz; 720x480i59.94Hz (480i59), 720x480p59.94Hz (480p59), 720x576i50Hz (576i50), 720x576p50Hz (576p50), 1280x720p50Hz (720p50), 1280x720p59.94Hz (720p59),1280x720p60Hz (720p60), 1920x1080i50Hz (1080i50), 1920x1080i59.94Hz (1080i59), 1920x1080i60Hz (1080i60), 1920x1080p23.98Hz (1080p23), 1920x1080p24Hz (1080p24), 1920x1080p25Hz (1080p25), 1920x1080p29.97Hz (1080p29), 1920x1080p30Hz (1080p30), 1920x1080p50Hz (1080p50), 1920x1080p59.94Hz (1080p59), 1920x1080p60Hz (1080p60), 1920x1200p60Hz (1200p60), 3840x2160p24 (2160p24), 3840x2160p25 (2160p25), 3840x2160p30 (2160p30), 3840x2160p50 (2160p50), 3840x2160p60 (2160p60), 4096x2160p24 (2160p24), 4096x2160p25 (2160p25), 4096x2160p30 (2160p30), 4096x2160p50 (2160p50), 4096x2160p60 (2160p60)
- HDMI 2.0b compliant
- HDCP 2.2 compliant
- Video Bandwidth: 18Gbps
- Color Depth: 8/10/12-bit
- Audio Port: 3.81mm Phoenix Connector
- Support external audio source input (LPCM 2.0CH)
- Distance up to 120m at 4K60 and 150m at 1080P@60 and 4K30
* Request additional 24V POC input

2K/1080P Switching Input Cards

MC6-IN-HDMI-1080P
HDMI 1080P Input Card

- 4-channel HDMI input signals
- HDMI Port:HDMI Type A
- Support 640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x768p60Hz, 1280x800p60Hz, 1280x1024p60Hz, 1360x768p60Hz, 1400x1050p60Hz, 1600x1200p60Hz,1920x1080p60Hz, 1920x1200p60Hz; 720x480i59.94Hz (480i59), 720x480p59.94Hz (480p59), 720x576i50Hz (576i50), 720x576p50Hz (576p50), 1280x720p50Hz (720p50), 1280x720p59.94Hz (720p59), 1280x720p60Hz (720p60), 1920x1080i50Hz (1080i50), 1920x1080i59.94Hz (1080i59), 1920x1080i60Hz(1080i60), 1920x1080p23.98Hz (1080p23), 1920x1080p24Hz (1080p24), 1920x1080p25Hz (1080p25), 1920x1080p29.97Hz (1080p29), 1920x1080p30Hz (1080p30), 1920x1080p50Hz (1080p50), 1920x1080p59.94Hz (1080p59), 1920x1080p60Hz (1080p60),1920x1200p60Hz (1200p60)
- HDMI 1.4 compliant
- HDCP 1.4 compliant
- Video Bandwidth: 6.75Gbps
- Color Depth: 8/10/12-bit (1080p60Hz)
- Audio Port: 3.81mm Phoenix Connector
- Support external audio source input (LPCM 2.0CH)

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INPUT AND OUTPUT CARDS FOR MM6-0808C/1616C/3636C AND MM6-0808CR/1616CR/3636CR

INPUT CARDS
2K/1080P Switching Input Cards

MC6-IN-MAV-1080P HDMI/DVI/VGA/YPBPR/AV 1080P Input Card		• 4-channel DVI input signals • DVI Port: DVI-I, 28-pin female • Signal Format: DVI-I full digital TMDS signal, which is compliant with DVI1.0 • Support 640x480p60Hz, 800x600p60Hz, 1024x768p60Hz,1280x800p 60Hz, 1280x1024p60Hz,1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1600x1200p60Hz, 1920x1200p60Hz • Color Depth: 8-bit (1080p60Hz) • Signal Level: TMDS 400 ~ 600mVp-p • Impedance: 100Ω • Video Bandwidth: 4.95Gbps • Audio Port: 3.81mm Phoenix Connector • Support external audio source input (LPCM 2.0CH)
MC6-IN-VGA VGA 1080P Input Card		• 4-channel VGA input signals • VGA Port: DB15, 15-pin female • Signal Format: RGB (Analog) • Support 640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x720p60Hz, 1280x800p60Hz, 1280x1024p60Hz,1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1600x1200p60Hz, 1920x1080p60Hz, 1920x1200p60Hz • Color Depth: 8-bit (1080p60Hz) • Horizontal Scan Frequency: 15KHz ~ 90KHz • Synchronization Type: RGBHV • Impedance: 75Ω • Nominal level: 0.7Vp-p • Audio Port: 3.81mm Phoenix Connector • Support external audio source input (LPCM 2.0CH)
MC6-IN-SDI SDI 1080P Input Card		• 4-channel SDI input signals • SDI Port: BNC/female • Signal Format: HD-SDI (SMPTE 292M)/3G-SDI • Support 720x480i59.94Hz (480i59), 720x576i50Hz (576i50), 1280x720p50Hz (720p50), 1280x720p59.94Hz (720p59), 1280x720p60Hz (720p60), 1920x1080i50Hz (1080i50), 1920x1080i59.94Hz (1080i59), 1920x1080i60Hz(1080i60), 1920x1080p23.98Hz (1080p23), 1920x1080p24Hz (1080p24), 1920x1080p25Hz (1080p25), 1920x1080p29.97Hz (1080p29), 1920x1080p30Hz (1080p30), 1920x1080p50Hz (1080p50), 1920x1080p59.94Hz (1080p59), 1920x1080p60Hz (1080p60) • Color Depth: 8-bit (1080p60Hz) • Video Bandwidth:2.97Gbps • Impedance:75Ω • Support external audio source input (LPCM 2.0CH) • Audio Port: 3.81mm Phoenix Connector

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INPUT AND OUTPUT CARDS FOR MM6-0808C/1616C/3636C AND MM6-0808CR/1616CR/3636CR

OUTPUT CARDS

4K60 Switching Output Cards

MC6-OUT-HDMI
HDMI Output Card (4K60)

- 4-channel HDMI output signals
- HDMI Port: HDMI Type A
- Support 720x576i50, 720x480i60, 1024x768p60, 1280x720p50, 1280x720p60, 1280x800p60, 1360x768p60, 1920x1200p60, 1920X1080i50, 1920X1080i60, 1920X1080P50, 1920x1080p60, 3840x2160p30, 3840x2160p50, 3840x2160p60, 4096x2160p50 (2160p50), 4096x2160p60 (2160p60)
- HDMI 2.0b compliant
- HDCP 2.2 compliant
- Video Bandwidth:18Gbps
- Color Depth: 8/10/12-bit
- Audio Port: 3.81mm Phoenix Connector
- Support stereo analog audio output (LPCM 2.0CH)

MC6-OUT-HDBT-150
HDBT 150m Output Card (4K60)

For VitBest ED-150-TRA only

- 4-channel HDBT output signals
- HDBT Port: RJ45
- Support 720x576i50, 720x480i60, 1024x768p60, 1280x720p50, 1280x720p60, 1280x800p60, 1360x768p60, 1920x1200p60, 1920X1080i50, 1920X1080i60, 1920X1080P50, 1920x1080p60, 3840x2160p30, 3840x2160p50, 3840x2160p60, 4096x2160p50 (2160p50), 4096x2160p60 (2160p60)
- HDMI 2.0b compliant
- HDCP 2.2 compliant
- Video Bandwidth: 18Gbps
- Color Depth: 8/10/12-bit
- Audio Port: 3.81mm Phoenix Connector
- Support stereo analog audio output (LPCM 2.0CH)
- Distance up to 120m at 4K60 and 150m at 1080P@60 and 4K30
* Request additional 24V POC input

2K/1080P Switching Output Cards

MC6-OUT-HDMI-1080P
HDMI 1080P Output Card

- 4-channel HDMI output signals
- HDMI Port: HDMI Type A
- Support 1024x768p60, 1280x720p60, 1280x1024p60, 1360x768p60, 1680x1050p60, 1600x1200p60, 1920x1080p30, 1920x1080p60, 1920x1200p60 (The user can select the resolution through the control software)
- HDMI 1.4 compliant
- HDCP 1.4 compliant
- Video Bandwidth: 4.95Gbps
- Color Depth: 8-bit (1080p60Hz)
- Audio Port: 3.81mm Phoenix Connector
- Support stereo analog audio output (LPCM 2.0CH)

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INPUT AND OUTPUT CARDS FOR MM6-0808C/1616C/3636C AND MM6-0808CR/1616CR/3636CR

OUTPUT CARDS
2K/1080P Switching Output Cards

MC6-OUT-MAV-1080P HDMI/DVI/VGA/YPBPR/AV 1080P Output Card		▪ 4-channel DVI output signals ▪ DVI Port: DVI-I, 28-pin female ▪ Signal Format: DVI-I full digital TMDS signal, which is compliant with DVI1.0 ▪ Support 1024x768p60, 1280x720p60, 1280x1024p60, 1360x768p60, 1680x1050p60, 1600x1200p60, 1920x1080p30, 1920x1080p60, 1920x1200p60 (The user can select the resolution through the control software) ▪ Color Depth: 8-bit (1080p60Hz) ▪ Signal Level: TMDS 400 ~ 600mVp-p ▪ Impedance: 100Ω ▪ Video Bandwidth: 4.95Gbps ▪ Audio Port: 3.81mm Phoenix Connector ▪ Support stereo analog audio output (LPCM 2.0CH)
MC6-OUT-VGA VGA 1080P Output Card		▪ 4-channel VGA output signals ▪ VGA Port: DB15, 15-pin female ▪ Signal Format: RGB (Analog) ▪ Support 1024x768p60, 1280x720p60, 1280x1024p60, 1360x768p60, 1680x1050p60, 1600x1200p60, 1920x1080p30, 1920x1080p60, 1920x1200p60 (The user can select the resolution through the control software) ▪ Color Depth: 8-bit (1080p60Hz) ▪ Horizontal Scan Frequency: 15KHz ~ 90KHz ▪ Synchronization Type: RGBHV ▪ Impedance: 75Ω ▪ Nominal level: 0.7Vp-p ▪ Audio Port: 3.81mm Phoenix Connector ▪ Support stereo analog audio output (LPCM 2.0CH)
MC6-OUT-SDI SDI 1080P Output Card		▪ 4-channel SDI output signals ▪ SDI Port: BNC/female ▪ Signal Format: HD-SDI (SMPTE 292M)/3G-SDI ▪ Support 720x480i60Hz (480i60), 720x576i50Hz (576i50), 1280x720p 25Hz (720p25), 1280x720p30Hz (720p30), 1280x720p50Hz (720p50), 1280x720p60Hz (720p60), 1920x1080i50Hz (1080i50), 1920x1080i60Hz (1080i60), 1920x1080p24Hz (1080p24), 1920x1080p25Hz (1080p25), 1920x1080p30Hz (1080p30), 1920x1080p50Hz (1080p50), 1920x1080p60Hz (1080p60) ▪ Color Depth: 8-bit (1080p60Hz) ▪ Video Bandwidth: 2.97Gbps ▪ Impedance: 75Ω ▪ Audio Port: 3.81mm Phoenix Connector ▪ Support stereo analog audio output (LPCM 2.0CH)

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