



深圳市比特视讯有限公司

BIT-MSE-U1-416

Ultra HD splicing processor

CATALOG

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1. Product Overview

1.1. Product features

1. BIT-MSE-U1-416 is an industrial-grade and high-performance product, and its ultra-high-definition resolution supports even up to 8Kx2K@60Hz.
2. Maximum support 4 inputs and 16 outputs. All splicing modes within 16 screens can be combined arbitrarily: horizontal screens / vertical screens / odd-numbered screens splicing, and supports large-scale parallel use.
3. Adopt wide voltage (100~240V) centralized power supply, low power consumption, energy saving and environmental protection design. Conductive heat dissipation is adopted internally, and no external heat dissipation measures are required. High reliability.
4. Support both wired network control and wireless network control.
5. Using 28nm process high-end programmable FPGA chip, it has full hardware and real-time processing architecture, making processing speed ultra-fast without delay.

6. With Industrial-grade design, it has thickened 6-layer PCB board, 16KV super anti-static ability, and tremendous stability.

7. Any splicing needs can be customized according to user needs.

1.2. Application scenarios

Ultra-high resolution desktop applications, ultra-large screen walls, command and dispatch systems, multi-screen video surveillance, engineering display applications, multi-channel projection, virtual reality, surround-screen theater, large advertising walls, LCD/LED multi-screens, etc.

2. Specifications

Product name	BIT-MSE-U1-416 Ultra HD splicing processor
Input Max. Pixel FPS	600MHz
Output Max. Pixel FPS	165MHz
4x4 highest resolution	7680x4320@60Hz
7x2 highest resolution	3840x7560@60Hz
2x7 highest resolution	13440x2160@60Hz

3x5 highest resolution	9600x3240@30Hz
5x3 highest resolution	5760x5400@30Hz
2x5 highest resolution	9600x2160@60Hz
5x2 highest resolution	3840x5400@60Hz
16x1 highest resolution	30720x1080@60Hz
1x16 highest resolution	1920x17280@60Hz
1x5 highest resolution	9600x1080@60Hz
1x7 highest resolution	13440x1080@60Hz
Factory default resolution	3840x2160@60Hz
Support customized arbitrary resolution	√
Types of input interface	4 DP 4 HDMI 1 RJ45 Lan 1 RJ45 Debug port
Types of output interface	4~16 HDMI
Size	482.6mm*396.8mm*44mm
Weight	5kg
Power	100~240V

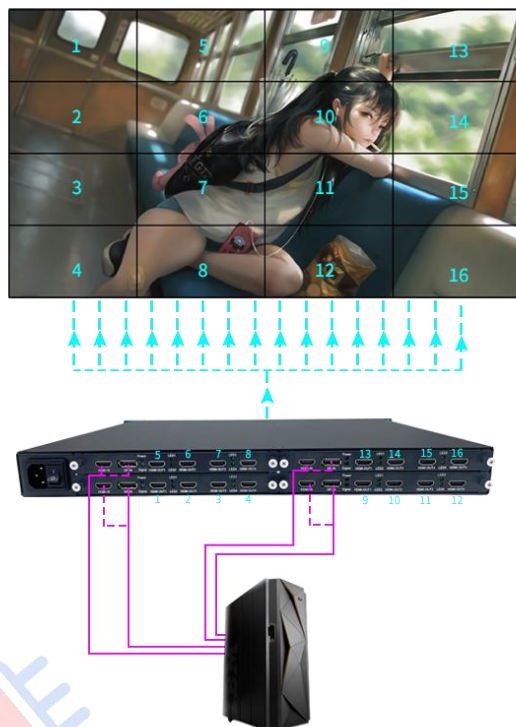
Warranty

One year

3.Operation instructions

3.1. Device Connection

- 1) Connect the output of the computer graphics card to the input of BIT-MSE-U1-416.
- 2) Connect the BIT-MSE-U1-416 output to the display device, and each output port serial number should be connected to the corresponding display screen.
- 3) BIT-MSE-U1-416 should be connected to 220V power.
- 4) After the correct connection is completed, the power light, signal light and output light will show a steady state.



4. Common problems

4.1. Device problem

4.1.1 Red light problem

1. Check the power cord, 220V power cord should be used for power supply.
2. Test whether the power supply to the device is stable (whether the voltage is stable, etc.).
3. Replace other 220V power adapters to test whether it is the power adapter.
4. The equipment light is damaged, or other equipment malfunctions.
5. The line we provide should be use as the data line for equipment input .

4.1.2 Green light problem

1. The input signal light is damaged, or other failures (EDID chip damage, etc.).
2. The input signal light is damaged, or other failures (computer graphics card problem, device resolution problem, secondary device problem, and signal line problem, etc).
3. When there is input (the input indicator is always on) and there is no output (the output indicator flashes/off), check whether the computer graphics card has output. You can connect the graphics card output to a monitor that can be used normally to see if there is output. If several output ports are normal, the normal output port can be exchanged with the abnormal output port. After the exchange, the abnormal port can output normally, it may be a problem with the output line, so replace the output line.

4.2. Computer graphics card problem

1. Check whether the graphics card needs additional power supply. Multi-output graphics cards with multiple output ports generally require additional power supply. Whether there is output port switch control, please refer to the instruction manual of the corresponding graphics card.
2. Confirm that the output port of the graphics card is a bandwidth output above 300M.
3. It is not recommended to use other signals to convert to HDMI. Please directly use the HDMI port on the graphics card to connect with the device
4. If the computer graphics card is connected to the device, check the graphics control panel to confirm if the device name can be seen.
5. 5. It is best to install the latest version of the graphics card driver, and download the latest graphics card driver from the official website. Before installing the latest driver, uninstall the old driver.
6. NVIDIA graphics driver download site: <http://www.nvidia.cn>
7. ATI graphics driver download site: www.amd.com

4.3. Display device problem

1. In order to confirm whether the display device supports the output resolution, you can directly connect the computer graphics card to the device to test this resolution.
2. Turn on the signal receiving function (power on, search signal function, etc.) to test Display whether the power supply of the device is stable, and
3. According to the transmission distance from the multi-screen treasure to the display device, select the appropriate receiver.
4. 4. If you use a short cable to connect Multi-Screen and the display device, there is still no output, it may be that the resolution required by the display device is special, please refer to the "custom resolution" operation.
5. 5. If the connection distance exceeds 1.5 meters, it is recommended to use network transmission.

4.4. Problem solve

Precondition	Problem phenome non	How to solve
The output resolution is correct	Image is blue	Set computer properties, set to "tiled" in desktop properties
Integrated Graphics	No image output	Change the discrete graphics card, or contact a technician

5. Additional explanation:

Nothing.