深圳市比特视讯有限公司



BIT-MSE-4K60-103PRO

4K Multi screen expansion





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1.Overview

1.1 Product Characteristics

1. BIT-MSE-4K60-103PRO is an industrial grade high-performance product specially developed for the demand of multichannel projection fusion. It adopts DP, DVI or HDMI / DP input interface, HDBaseT standard output port, and supports chassis .
2. BIT-MSE-HDBT-103PRO Version. Higher resolution support 7680x1200@30Hz, compatible with low resolution.
3. 45nm high-end programmable FPGA chip, which is full hardware real-time processing architecture and extremely fast processing speed without delay.
4. Industrial design with thickened 6-layer PCB and 16KV anti-static , strong product stability.
5. Support parallel operation to meet the real-time display demand of large screen.
6. Low power design, the internal adopts conduction heat dissipation without any external heat dissipation measures, so the reliability is very high.

1.2 Application Scenario

High resolution desktop application, large screen wall, command and dispatching system, multi screen video monitoring, engineering display application, multi-channel projection, virtual reality, ring theater, large advertising wall, LCD / LED multi screen, etc.

2. Specifications

Product name	BIT-MSE-4K60-103PRO
Maximum video pixel frequency of input interface	600MHz
Maximum video pixel frequency of output interface	330MHz
BIT-MSE-HDBT-103PRO Highest resolution	3x1920X1200@60Hz; 3x1920X1080@60Hz Default resolution: 3072x768@60Hz
Input interface type	1x DP/1x DVI/1x HDMI 1xDP+1xDVI or 1xDP+1xHDMI (optional)
Out interface type	3 standard HDBaseT port outputs
Transmission distance	70m, 100m, 120m optional
Power Supply	12V@2A AC-DC Power Supply
Quality assurance	One year

3. Operation instructions

3.1 Product panel description



BIT-MSE-4K60-103PRO output panel

A: HDMI 2.0 input

B: DP 1.2 input

C. D.E.: HDMI outputost.

HDMI/DP(Choose one, HDMI has priority)



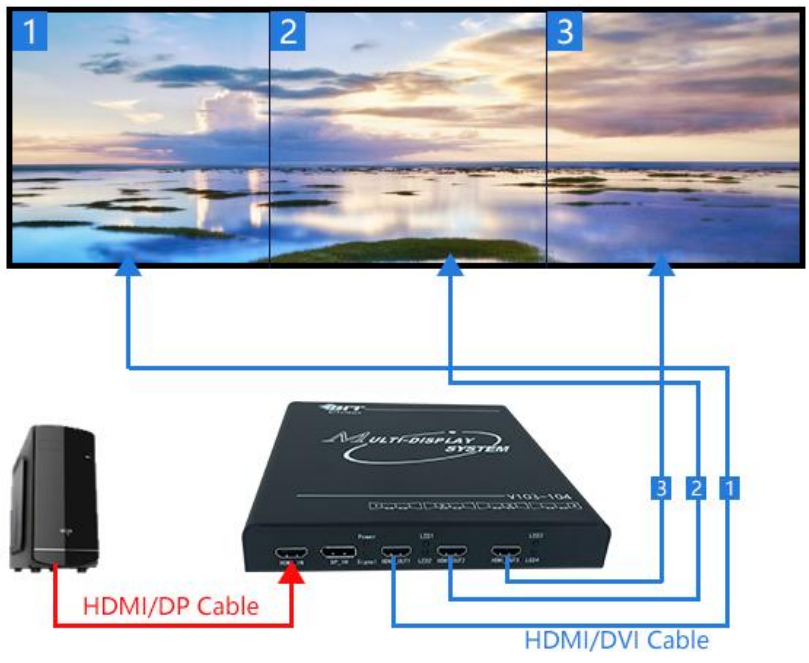
BIT-MSE-4K60-103PRO output panel

A：Power interface

B：DEBUG debug port

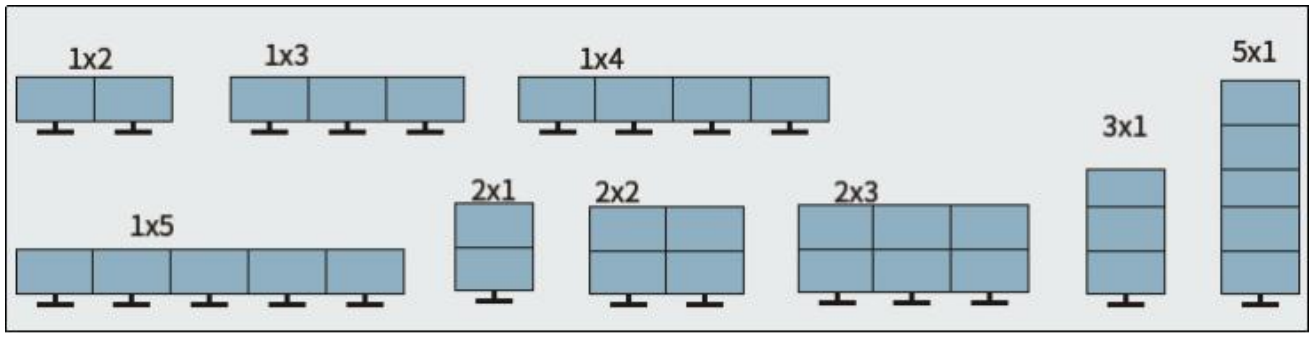
3.2、 Device connection

1) The output of computer graphics card is connected to it.
2) The output of multi screen treasure is connected to the display Device，and the serial number of the output port is connected to corresponding display screen，the maximum distance between output and display device is 120m.
3) It connected with 12V power supply, and supporting POE.
4) After the correct connection is completed, the power light, signal light, the port connection signal light and output light will display the normally on state.
5) Its connection is flexible, can be combined arbitrarily, easy and quick to operate.



Typical 1X3 schematic

Some splicing modes are as follows



4. Common problem

4.1. Red light problems

1. Check the power cord, the 12V power cord must be used.
2. Check the power supply(whether the voltage is stable, etc).
3. Replace other 12V power adapter and test for power adapter issues.
4. The Device lamp is damaged, or the Device has other faults.
5. Input data line must use DP line of distribution.

4.2. Green light problems

1. Input signal lamp is damaged or other faults(EDID Chip damage, etc).
2. Output signal lamp is damaged, or other faults（Computer graphics card problem, device resolution problem, secondary device problem, signal line problem, etc）.
3. When there is input（Input indicator always on）and no output（Output indicator light flashing / off），check your computer’ s graphics card for output. You can connect the output of the video card to the display that can be used normally to see if there is output. If several output ports are normal, it can be exchanged with the abnormal output port. After the exchange, the abnormal port can output normally, which may be the problem of the output line. You need replace the output line.

4.3. Computer graphics card problems

1. Check whether the graphics card needs additional power supply. For multi output graphics card with multiple output ports, it generally needs additional power supply. If there is an output port switch control, refer to the operation manual of the corresponding model of graphics card.
2. Confirm that the DP output port of the graphics card is more than 300m bandwidth output.
3. It is not recommended to use other signal to DP. Please directly use the DP port on the video card to connect with the device.
4. If the computer graphics card is connected to the device, check the control panel of the graphics card to see whether the name of the device can be seen.
5. It is better to install the latest version of the video card driver, download the latest driver from the official website, and uninstall the old driver before installing the latest driver.

4.4. Display device problems

1. Whether the display device supports the output resolution, which can be tested by connecting the computer graphics card directly to the device.
2. Display whether the power supply of the Device is stable and turn on the signal receiving function.(Power on, search signal function, etc.)
3. Select the appropriate HD BaseT receiver according to the transmission distance from device to display device.
4. If a short line is used to connect the device with the display device, or there is no output. It may be that the resolution required by the display device is quite special. Refer to the operation of "custom resolution".
5. If the connection distance is more than 1.5m, it is recommended to use network transfer.