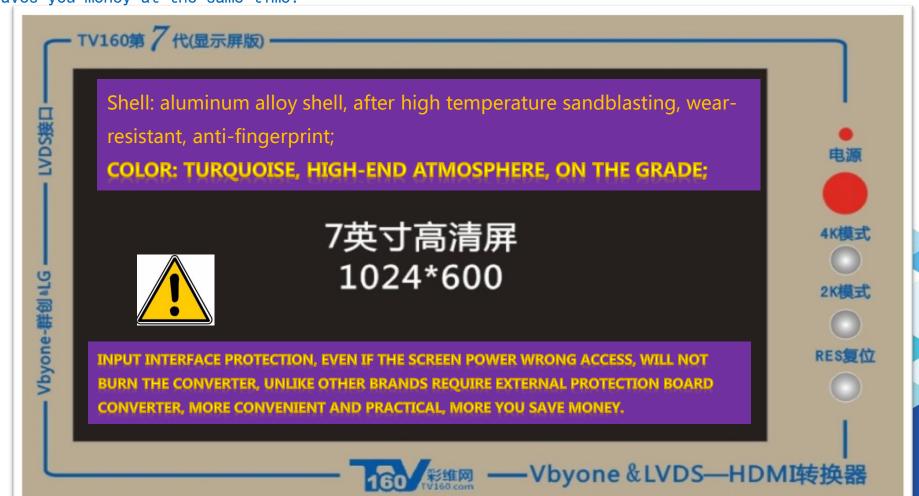


- Converter introduction
- Converter conversion board introduction
- Conversion diagram of small board connection
- Converter connection tips
- Common motherboard interface diagram



TV60-7 generation converter (display version) Product Description: www.HKLRF.com

This converter uses aluminum alloy outer shell, easy to carry, while 2K, 4K compatibility is excellent, it is important that the interface protection circuit through hundreds of tests to protect the perfect, tested, is the wrong screen power supply into the LVDS input pin Will not burn the converter, unlike other brand converter also need to be accompanied by another hundred yuan protection plate, do not spend money, but also lead to complex connections, affecting the appearance, carrying more inconvenient, we are integrated protection design, as Your convenience saves you money at the same time!





Product description:

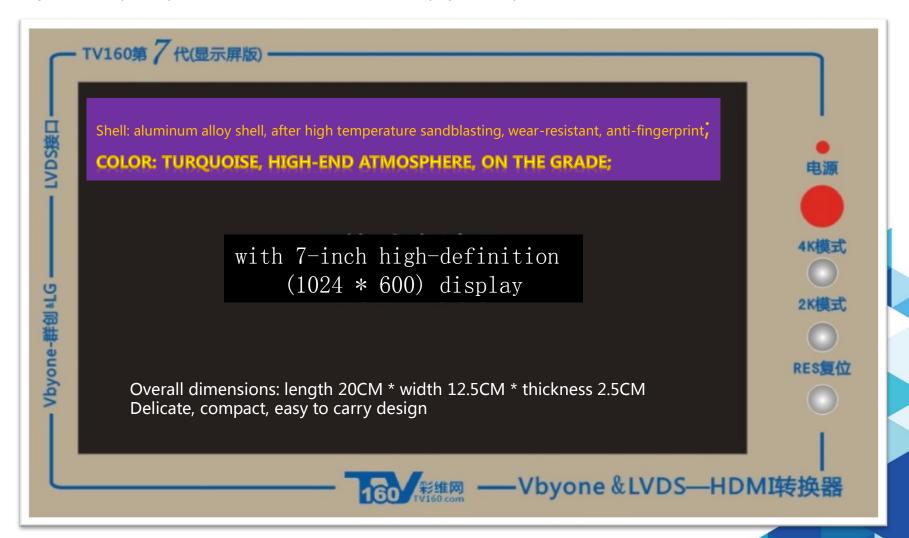
Welcome to buy and use "TV60-7 Generation LVDS & Vbyone-HDMI Converter"With the development of LCD TV technology, the movement panel shows the characteristics of TTL (LVDS), V-by-One (TTL) and diversified screen and screen parameters (same hardware and different screen parameters). At present, maintenance user machines are generally used to pull back the whole machine or disassembled maintenance, in which the risk of screen breaking and the cost of tooling screens are high. To this end, TV160-7 generation LVDS & Vbyone-HDMI converter is a practical solution that can support various brands (Skyworth, Hisense, Changhong, TCL, LG, Samsung, Konka, Haier, and other brand-name machines) Motherboard test, As long as it is not a motherboard with T-CON driver board, LVDS signals and 4K Vbyone signals all support, The converter compatibility, small size, beautiful appearance, easy to carry and so on.

According to the statistics, the LVDS and V-by-One signal formats currently occupy a large proportion of TVs, and the LVDS and V-by-One signal formats of the respective movement boards are different. Among them, the LVDS signals include VASA, JEIDA Format, 6bit, 8bit, 10bit wide, 60Hz, 120Hz, 240Hz screen refresh rate, 1366 * 768,1920 * 1080 resolution, and different 2K screen manufacturers LVDS interface line sequence is different; V-by-One signal has 60Hz, 120Hz screen refresh rate, 4, 8, 16 signals, different 4K screen body V-by-One interface line sequence is also different. Converting all these LVDS and V-by-One to standard HDMI 1.3 signals is of great importance to the factory and maintenance personnel, saving a lot of tooling screens, Because the converter with a 7-inch high-definition display, home test motherboard repair more convenient.



Product description:

The converter mainly includes a set of converter host, a power adapter, LVDS adapter plate 4, V-by-One adapter plate 3, the converter host physical photos are as follows:





TV60-7 generation converter product

- 1, equipped with 7-inch high-definition (1024 * 600) display can be directly displayed on the motherboard images sent at the same time output 1080P / 60Hz HDMI can be directly connected to the external display or TV;
- 2, support for 2K television products, single and double line of 60Hz, 120Hz, 240Hz resolution LVDS signals;
- 3, support 4K TV products V-by-One (including 4, 8, 16) signal conversion into full-screen output, compatible;
- 4, Automatic recognition LVDS, V-by-One signal, through the key to LVDS (2K mode), V-by-One (4K mode) cycle switching;
- 5, wide power input design, support 5V-12V adapter (recommended 5-6V / 2A or more current power adapter).
- 6, the converter not only supports 8bit \ 10bit VASA, JEIDA and other formats of LVDS signals, also supports 60Hz, 120Hz, 240Hz single-screen and dual-screen line LVDS signals to support 4, 8, 16 V- by-One (30/60 / 120Hz) signal, compatible with all LVDS, V-by-One signal movement motherboards. The converter also comes with 7-inch screen display, home test board more convenient, well received by the maintenance, maintenance engineers no longer have to worry about the lack of testing, aging screen tooling problems. For the factory production test, it outputs 1080P HDMI format signals, direct external display and TV display, display resolution higher.
- 7, built-in input interface protection circuit, even if the screen into the power, it will not burn the converter, unlike other brand converter to engage in a lot of protection small board so much trouble, the product is more convenient to use.



TV160-7 generation converter comes standard with the annex:

www.HKLRF

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with 7-inch high-definition (1024 * 600) display

With 7-inch high-definition (1024 * 600) display

With 7-inch high-definition (1024 * 600) display

Converter hos



Power Adapter











Four LVDS screen adapter conversion board (2K TV use)







Three Vbyone interface converter board (4K TV use)

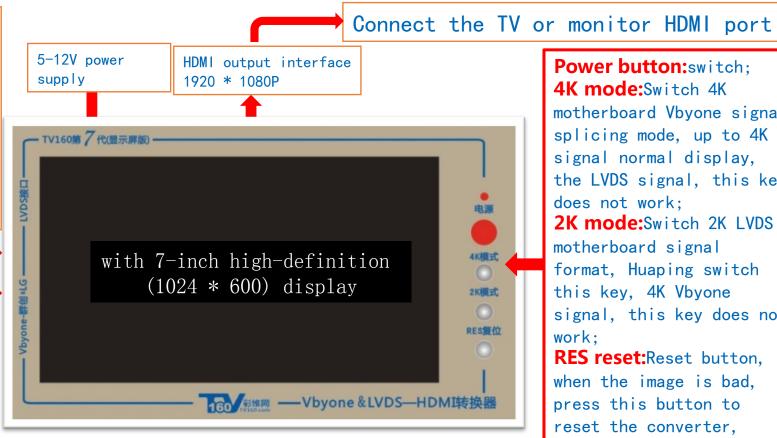


TV160-7 generation converter operation diagram:

LVDS interface:

Connect the LVDS conversion board, the screen conversion board directly inserted face up 。

Vbyone interface: 4K motherboard screen line directly into this port, this port only supports group * IG screen line interface, other brands need to transfer plate screen line conversion.

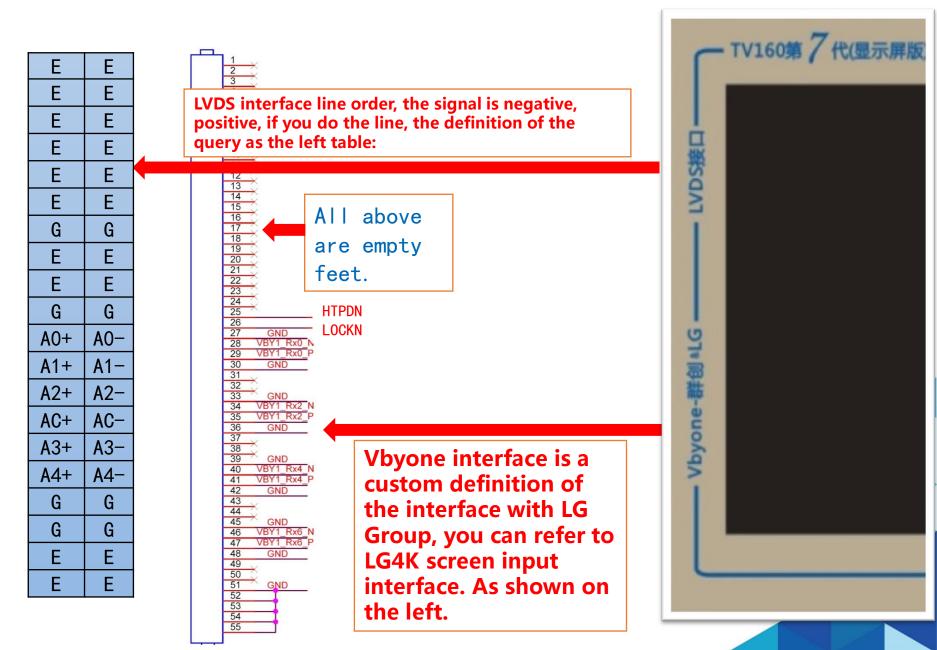


Power button:switch: 4K mode:Switch 4K motherboard Vbyone signal splicing mode, up to 4K signal normal display, the LVDS signal, this key does not work; 2K mode:Switch 2K LVDS motherboard signal format, Huaping switch this key, 4K Vbyone signal, this key does not

RES reset:Reset button. when the image is bad, press this button to reset the converter, reset 2K or 4K mode.

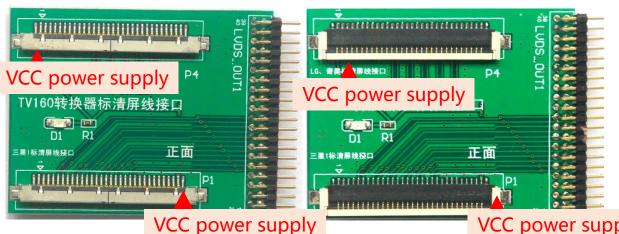
Note: When testing 4K-Vbyone signals, unplug the LVDS boardlets In the meantime, there may be interference if inserted, which may result in inability to plot.







Converter with seven conversion board: (four LVDS screen adapter conversion board)



VCC power supply

VCC power supply SD interface (Samsung screen)

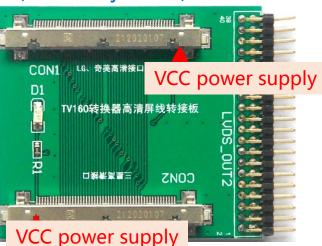
正面

P_THO == 1050922 ==

P_TNO = 1.050922

VCC供申

SD interface (commonly used)



SD soft cable four interfaces

This four small board is only for 2K LVDS signal conversion board,

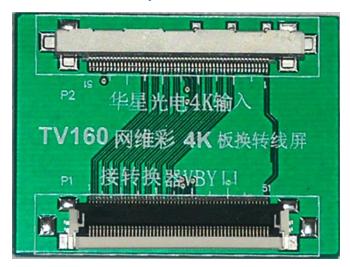
See below for usage, see 4K on the Vbyone converter board see

The next page icon:

HD interface board (commonly used)



Converter with seven conversion board: (three Vbyone interface converter board)





Huaxing photoelectric screen conversion board 2 groups, 4 groups of Vbyone signal converter board

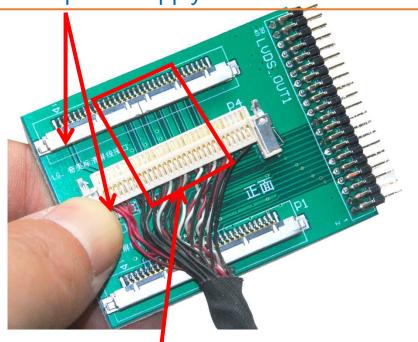


The three small board is only for 4K Vbyone signal conversion board, Use the method described later. Note: Group, LG, (late Samsung), BOE and other 4K screen interface motherboard, without conversion board, the motherboard 4K screen line output directly into the seven generations of converter Vbyone interface can be.

120HZ - two sets of Vbyone screen conversion board

LVDS commonly used standard four-port small plate to

Screen power supply line and small board corresponding



LVDS signal line is the differential line, it is sure that the twisted pair and the signal line on the screen board (two together) can be good, other screen line interface refer to this method. The figure is mainly LG, a group, China Star Optoelectronics, BOE BOE, AU and other 32-37-inch SD interface using this port can be inserted.

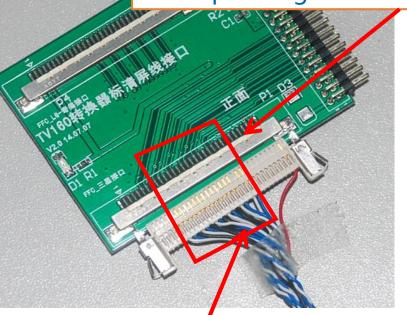
Plug the screen into this interface, turn on the power of the TV main board, and the LED on the small board will turn on due to the screen power supply (If not bright, please check the interface is wrong), Then the small board face up, insert the converter LVDS interface, you can test the motherboard.



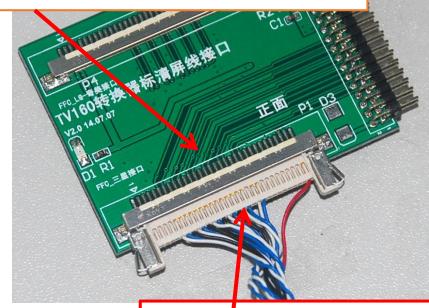
LVDS commonly used standard four-interface 彩维网 small board to use:

www.HKLRF.com





LVDS differential twisted pair and the signal line on the small screen board (two together) can be good, this port is the right power supply and the above port power supply on the contrary. This port is mainly Samsung 32-37 inch SD interface using this port can be inserted.

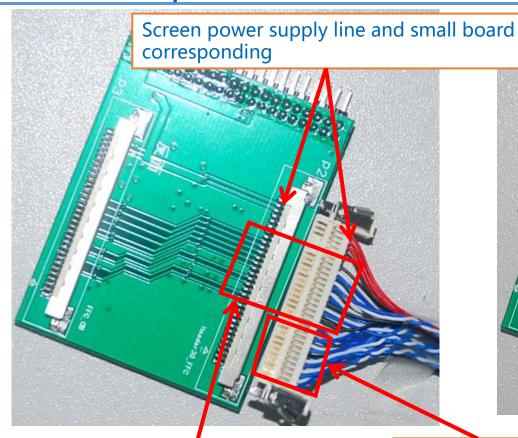


Plug the screen into this interface, turn on the power of the TV main board, and the LED on the small board will turn on due to the screen power supply (If not bright, please check the interface is wrong), Then the small board face up, insert the converter LVDS interface, you can test the motherboard.



LVDS commonly used standard four-port small

www.HKLRF.com



Commonly used SD small board

opposite P2 mouth, you can take

using this interface.

orders 8 and 8 dual Samsung screen

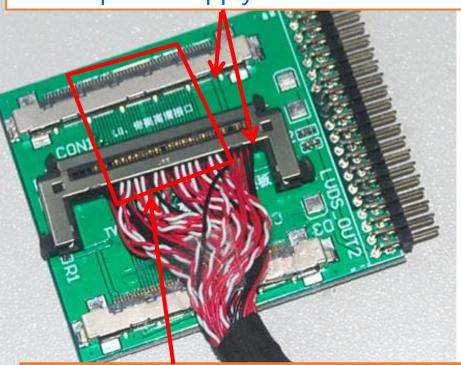
This port is the early group Chi Mei screen interface, now less used, commonly used in small size display LVDS interface motherboard.

line port, such as such screen line can be inserted into this port, commonly used 22-26 inch high-definition screen

Only a single set of LVDS signal converter can be a map, 30pin double 8-screen line can only be connected to a group.

30pin screen into this interface, the TV motherboard power on, the small board of the light on the screen will be lit (if not bright, check the interface is wrong), then the small board face up, insert the converter LVDS Interface, you can test the motherboard.

Screen power supply line and small board corresponding



LVDS high-definition twisted pair and the signal line on the small line board (two together) corresponds to good, other screen line interface with reference to this method. The figure is mainly LG, a group, China Star Optoelectronics, BOE BOE BOE 42-84 inch LVDS high-definition screen double 8 or double 10 line interface using this port can be inserted.

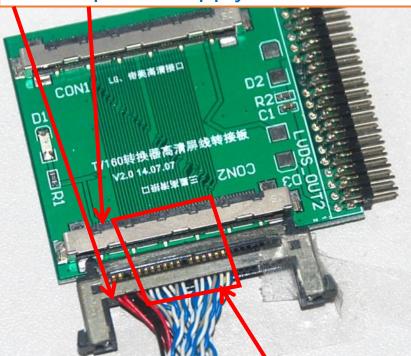


When the screen is plugged into this interface, the power on the TV mainboard will turn on, and the indicator light on the small panel will light up due to the screen (if not, please check whether the interface is wrong), insert the small board face up and insert the converter LVDS interface, You can test the motherboard.

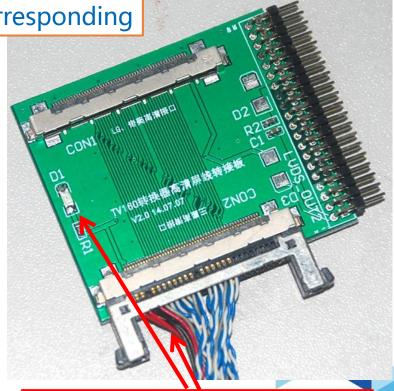


LVDS commonly used two high-definition interface 160 彩维网 (Samsung screen interface)

Screen power supply line and small board corresponding



LVDS high-definition twisted pair and the signal line on the small line board (two together) corresponds to good, other screen line interface with reference to this method. The figure is mainly Samsung, AU-screen and other 42-84 inch LVDS high-definition screen double 8 or double 10 line interface using this port can be inserted.

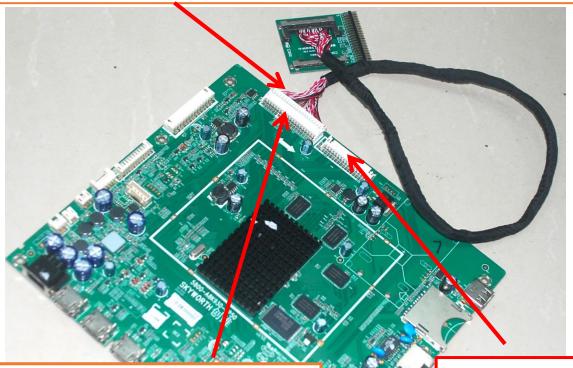


When the screen is plugged into this interface, the power on the TV mainboard will turn on, and the indicator light on the small panel will light up due to the screen (if not, please check whether the interface is wrong), insert the small board face up and insert the converter LVDS interface. You can test the motherboard.



彩维网 LVDS dual line HD adapter board

120HZ-240Hz dual LVDS signal motherboard, just plug in a main line to the HD board, as shown below:



120HZ-240Hz dual LVDS signal motherboard, just plug in a main line to the HD board, LG, if a group such as double-screen line, insert CON1 port, if Samsung dual screen line, insert CON2 port that can.

Another screen can be converted into the screen without access to the converter.



LVDS adapter board into the converter diagram:

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After inserting the panel into the panel, no matter what screen panel is inserted into the front converter, as shown:



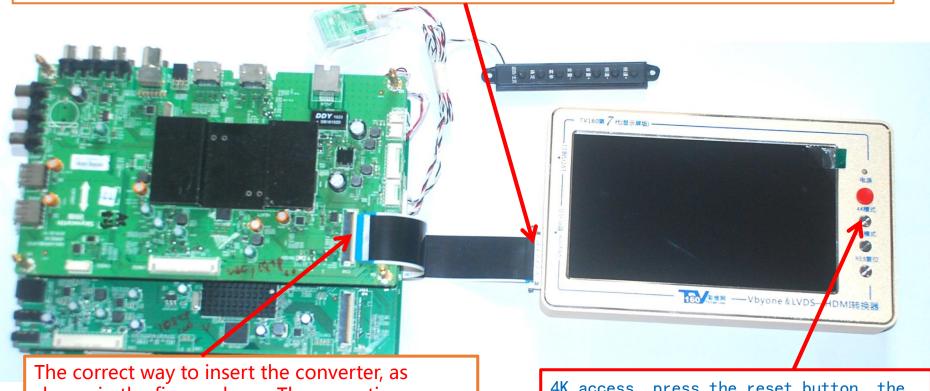
The correct way to insert the converter, as shown above; Operation steps, the TV motherboard boot, see the small board light that the board and the motherboard screen power supply connection is correct, this time you can insert the converter boot.

After access, such as Huaping, press the reset button, such as still Huaping, you can press 2K mode button to switch. If the image is not displayed, check if the motherboard is powered on or the screen connection is properly connected. The 4K mode key will not function in LVDS status.



Common 4K-Vbyone access converter diagram:

The 4K-Vbyone interface, you can directly connect LG, a group, BOE, etc. (later Samsung) 4K motherboard access



The correct way to insert the converter, as shown in the figure above; The operation method steps, first confirm whether the TV motherboard is 4K motherboard, the output is Vbone signal, if it is LVDS signal, (can drive the board) prohibit the insertion of this port. This interface can be inserted directlyLG, a group, BOE, etc. (late Samsung) and other 4K motherboard access.

If it is Huaxing Optoelectronics, you need to convert small board conversion and then access.

4K access, press the reset button, the converter automatically recognizes the image mode, complete the full image display, such as found on the screen shows the same two images, you can press the 4K mode button to switch. If the image is not displayed, check if the motherboard is powered on or the screen connection is properly connected. 4K-Vbyone state, 2K mode key will not work.



Huaxing Photoelectric Screen 4K-Vbyone access **彩维网** converter diagram: www.HKLRF.com

If it is Huaxing 4K electronic screen, you need to go through the Huaxing 4K converter conversion board and then access the converter, as shown below

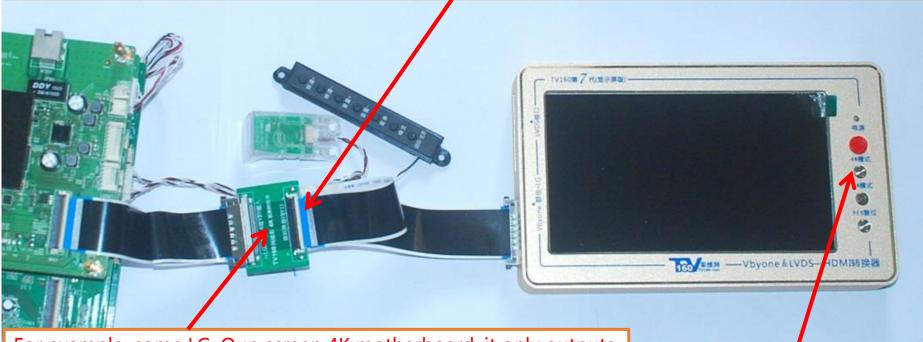


Photoelectric 4K motherboard, because the 4K Star motherboard and LG Group create 4K screen line sequence is different, you need to change and then access, or not a picture. If you can not confirm, check the motherboard line sequence can correspond to the small board can also access the converter to try.

Just like the operation of 4K motherboard, press the reset button, see the image is normal, if not normal, then press the 4K mode button.

彩维网 Four sets of 4K-Vbyone access converter diagram:

Such as the two groups \ four groups of 4K-Vbyone signal access, through 2_4 group conversion board conversion and then insert the converter



For example, some LG, Qun screen 4K motherboard, it only outputs 4 sets of Vbyone signal, such as directly into the converter may not be able to display images, through the "LG Group create 2_4 group conversion board" conversion, and then insert the converter only image. If you can not confirm the motherboard output several groups, count the number of capacitors on the Vbyone signal line on the motherboard, if only four pairs, you need this conversion board. Individual 8 pairs of direct insertion, such as no map, you also need to convert through this board and then insert the converter. If you do not understand, we can access the conversion plate test can be, as long as the Vbyone signal, will not burn the motherboard and the converter.

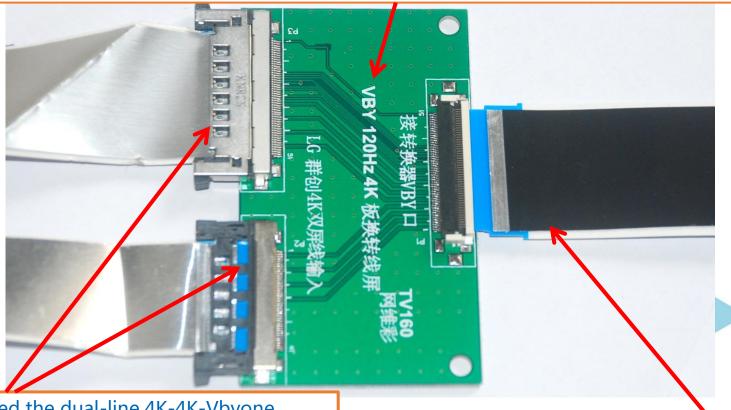
Just like the operation of 4K motherboard, press the reset button, see the image is normal, if not normal, then press the 4K mode button.



4K-Vbyone double line conversion board connection diagram: www.H

www.HKLRF.com

120HZ-240Hz dual 4K-Vbyone motherboard, through the conversion of small board, and then access the converter, as shown below:



Confirmed the dual-line 4K-4K-Vbyone signal motherboard, the current main board is mainly used in high-end machines, such as OLED products, the original output of the two screen lines, insert the conversion board, conversion and then insert Converter can be. The following page:

Through this small board conversion, and then insert the 7 generation converter 4K-Vbyone input port can be.



Through this small board conversion, and then insert the 7 generation converter 4K-Vbyone inputwp.o.Hkurancom







7 generation converter access motherboard icon: TV160.com (OLED-4K motherboard) www.Hk www.HKLRF.com



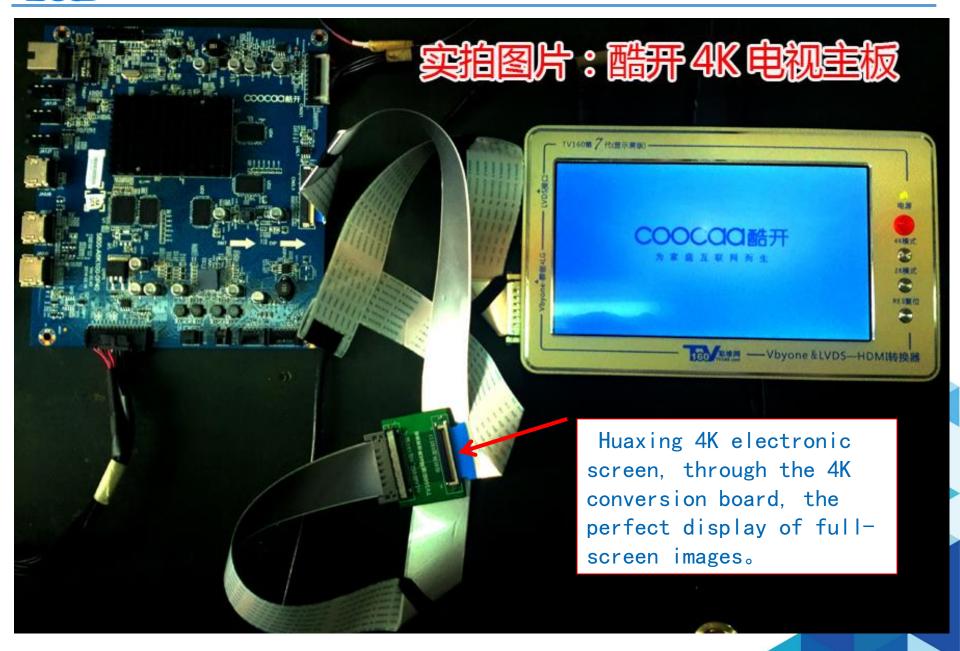
<mark>彩维网</mark> 7 generation converter access motherboard icon: (then TV160.com LVDS motherboard) www.HKLRF.com



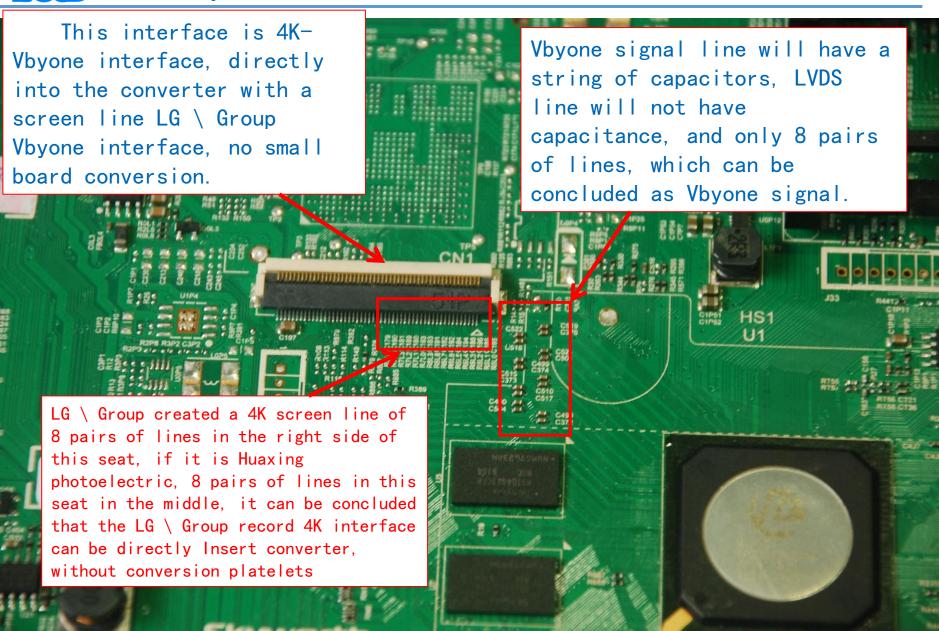
7 generation converter access motherboard icon: 160 彩维网 / generation converter access moth twiston (display factory mode information) www.HKLRF.com



7 generation converter access motherboard icon: (4K TV160.com Hua Xing motherboard) www.HKLRF.com

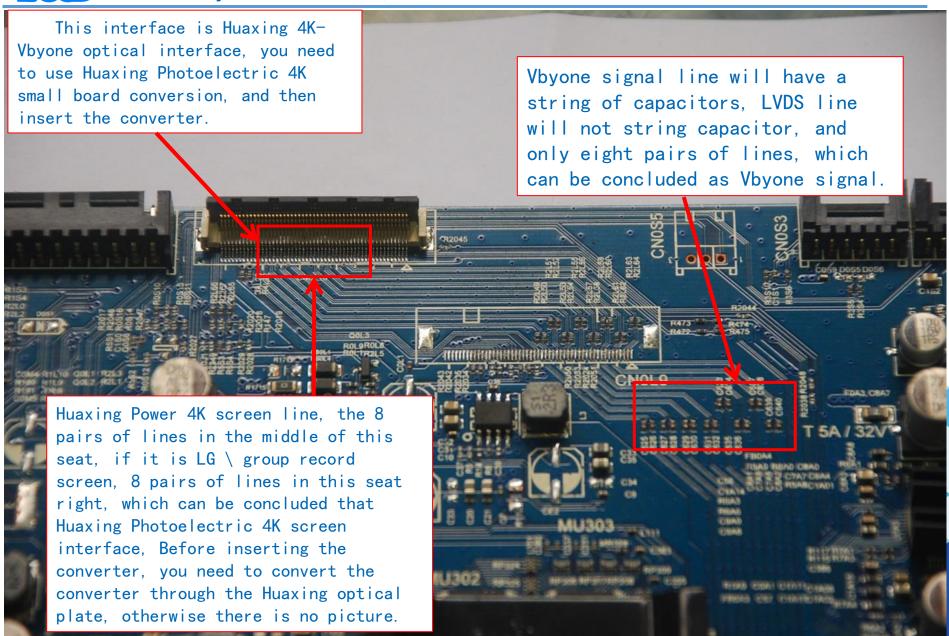


Common screen line output port classification icon: (4K-Vbvone interface) www.HKLRF.com



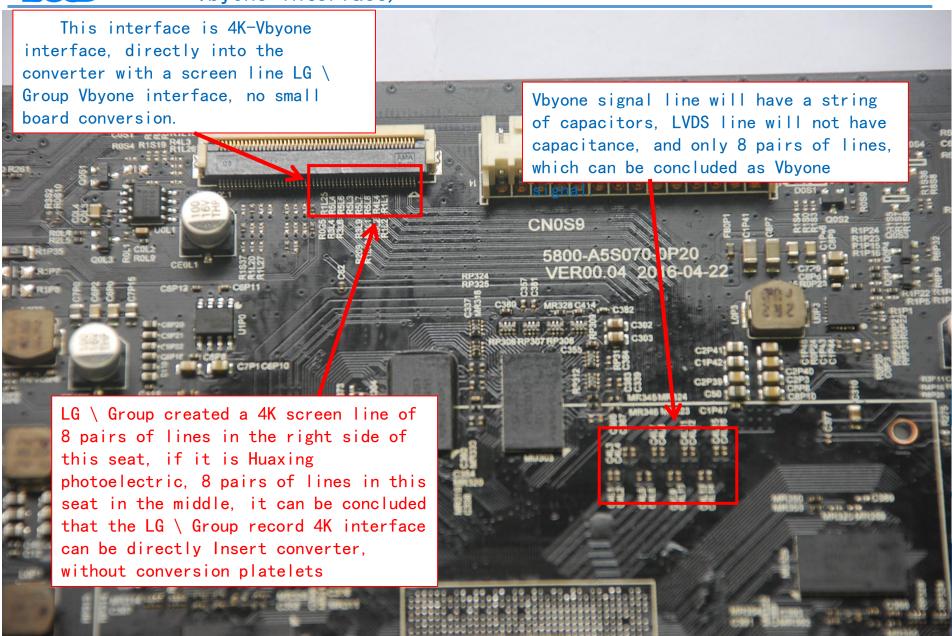


Common screen line output port classification icon: (4K-Vbyone interface) www.HKLRF.com





Common screen line output port classification icon: (4K-160 彩维网 Vbyone interface) www.HKLRF.com





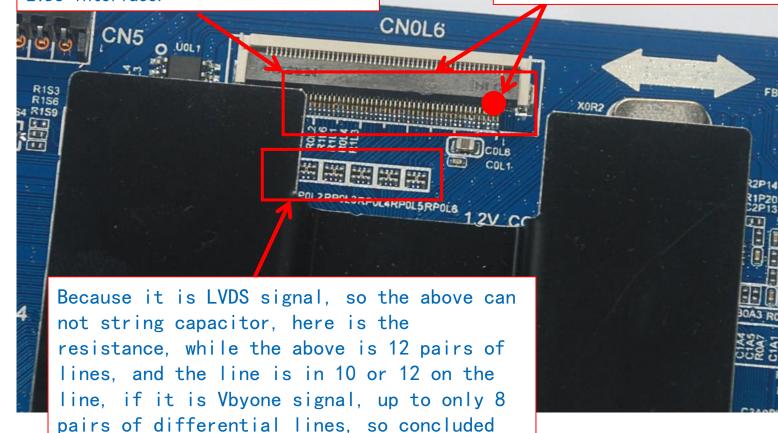
Common screen line output port classification diagram: (LVDS

www.HKLRF.com

This interface 51Pin LVDS interface, with the original screen into the line converter LVDS HD converter board LG \ group CON2 port, and then insert the converter LVDS interface.

that this interface Is the LVDS signal.

In addition, the power supply on the right side of this interface, if the Vbyone signal, power supply on the other side, which can be concluded that the LVDS signal, and is LG \ Innovative LVDS interface.



Common screen line output port classification diagram: (LVDS

CNOL1 COLIC

www.HKLRF.com

This interface 51Pin LVDS interface, with the original screen into the line converter LVDS HD converter board LG \ Group CON2 port, and then insert the converter LVDS interface.

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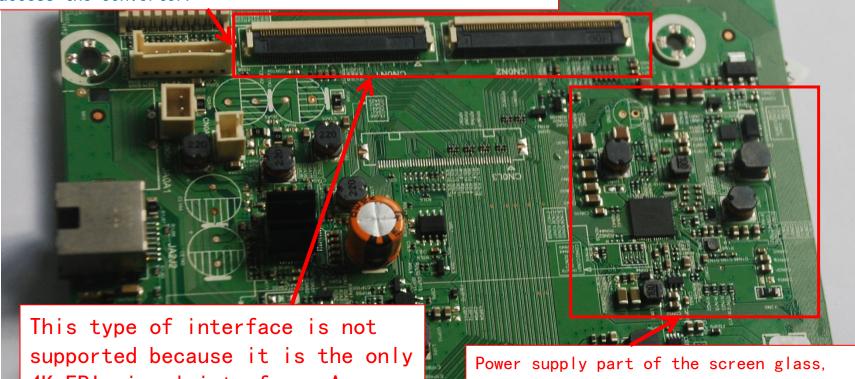
Because it is LVDS signal, so the above can not be a string of capacitors, the signal line without any components, while the above is 12 pairs of lines, if the Vbyone signal, up to only 8 pairs of differential lines, so conclude that this interface is LVDS signal.

ATTERESTRATES CONTRACTOR



Common screen line classification icon: (does not support TV160.com with T-con driver board) www.HKLRF.com

This interface is not an LVDS interface or a vbone interface. This port is a 4k EPI interface and is a patented LG with 16 sets of voltages. Such interfaces are not supported by the converter and are not allowed to access the converter.



4K-EPI signal interface. Access to the converter is forbidden

including gamma voltage generated by the Board is the motherboard with a logic driver board, because the interface is completely different, the converter does not support such interfaces, access to any small board and converter is prohibited, the side may be Cause the motherboard damage.



Common screen line classification icon: (does not support www.HKLRF.com www.HKLRF.com

This interface is not an LVDS interface nor a vbone interface. This interface is a MinLVDS interface with 16 sets of voltages. Such interfaces are not supported by the converter and are not allowed to access the converter.

This interf because the currently d conversion is prohibit

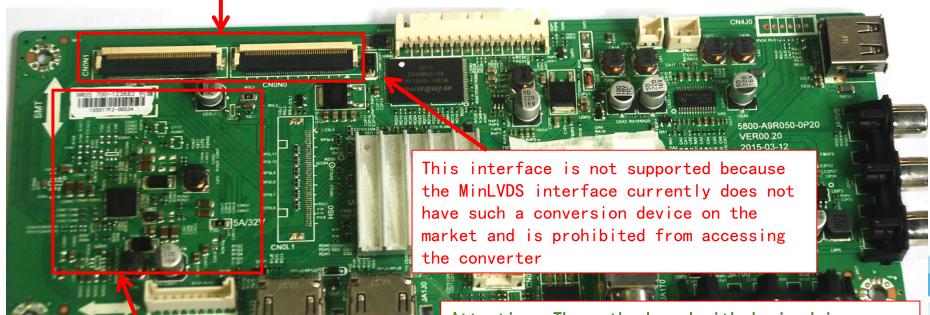
Attention: The motherboard with logic driver board is strictly matched with the screen glass. Because the standard of the output signal is not uniform and the versatility is poor, there is not any converter device conversion at present, which is to make the converter board versatile, poor compatibility and many kinds of conversion Board, so the price is not high, so there is no such conversion board conversion. Such interfaces are forbidden to access the converter.

This interface is not supported because the MinLVDS interface currently does not have such a conversion device on the market and is prohibited from accessing the converter

Power supply part of the screen glass, including gamma voltage generated by the Board is the motherboard with a logic driver board, because the interface is completely different, the converter does not support such interfaces, access to any small board and converter is prohibited, the side may be Cause the motherboard damage.

Common screen line classification icon: (does not support with T-con driver board) www.HKLRF.com

This interface is not an LVDS interface or a vbone interface. This interface is a MinLVDS interface with 14 sets of voltages. Such interfaces are not supported by the converter and are not allowed to access the converter.



Power supply part of the screen glass, including gamma voltage generated by the Board is the motherboard with a logic driver board, because the interface is completely different, the converter does not support such interfaces, access to any small board and converter is prohibited, the side may be Cause the motherboard damage.

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