

## HDMI to VGA solution description document



**The basic specifications of this scheme are as follows：**

**Input signal support：**

HDMI：720x480 720x576 1280x720 60Hz 1280x1024 60Hz 1280x1024 60Hz

1360x768 60Hz 1600x1200 60Hz 1680x1050 60Hz 1920x1080 60Hz

**Output signal support :**

VGA : 1280x720 60Hz 1280x1024 60Hz 1280x1024 60Hz 1360x768 60Hz  
1600x1200 60Hz 1680x1050 60Hz 1920x1080 60Hz

**Connector function definition: (subject to the latest PCB file of Chipav)**

P4 : Power Input 5 V

P1 : HDMI Input

S1 : Output resolution switching

P2 : VGA Output

P3 : Audio Output

**Operating instructions :**

Before the PCB board is not powered on, first insert the HDMI signal source into the P1 interface through the HDMI line, and then connect to the P2 / P3 interface according to your own needs. Finally, connect 5V power supply, the board can work normally.

**Chips provided by chipav are :**

The solution consists of three main chips, and the process is as follows:

EP9351 : Decode HDMI signal and output it to CV2880.

STM8S005K6 : The controller of the overall solution.

CV2880 : It scales the input signal resolution and outputs VGA signal.