

## **Circuit description**

KVM SWITCH multi-computer switch can solve single server or on multiple servers throughout the day room PC management and maintenance. It is more than one server or PC mouse, keyboard, VGA signal input through the input port, the device comes with a mouse, keyboard and display control port to operate. KVM VGA signals to the keyboard and mouse signals through the selector, according to the demand controllers. Send commands to the microcontroller and then after receiving the instruction to give each port select the microcontroller chip sends instructions to the selector switch to a single user needs to operate PC or server: 1, the input VGA signal through impedance matching resistor after the input to select chip, and then select the device directly from the MCU control, the operator sends commands to the microcontroller and microcontroller VGA signal selector user needs a VGA signal, the user selector need VGA signal sent to the integrated operational amplifier chip for signal amplification transmission to the control side of the display, in order to achieve choice! 2, the input signal directly to the mouse and keyboard signals into the microcontroller, the microcontroller according to the requirements of the user to select the desired control of the server or PC, microcontroller also sends instructions to ensure that the mouse, keyboard, and VGA signal synchronization work. Oscillation frequency of the main directives of external microcontroller is 16MHz, auxiliary external microcontroller instruction oscillation frequency is 24MHz.