

What a mouse is and how it works

Good day friends Today we talk about a very handy device to which we are so accustomed, and without which it is not already present on the computer. A mouse is a push-button manipulator designed along with a keyboard for entering information into the computer. Really he looks like a mouse with a tail. A modern computer is unthinkable without this stuff. Mouse use much easier than for example integrated handling of the laptop. So often users disable this laptop Mat and connect a mouse. How is this handy thing The first manipulators included a ball that had focused on the two rollers with the discs. The outer rim of each disc had a perforation. The shafts were perpendicular to each other. One shaft was responsible for the X-coordinate horizontal movement the other for the Y coordinate of the vertical movement. When you move the paddle on the table the ball was rotated transmitting torque to the shafts. If the movement of the manipulator was performed in the direction from right to left then rotate the shaft mainly responsible for the coordinate X. the Cursor on the screen moves in a left and right. If the mouse is moved in the direction to himself from himself revolved the shaft mainly responsible for the coordinate Y. the Cursor on the screen moved up and down. If the manipulator is mixed in an arbitrary direction rotate both shafts respectively moved and the cursor. These devices contain two optical sensor of the optocoupler. The optocoupler includes the led emitter emits in the infrared range and the receiver a photodiode or phototransistor. Emitter and receiver located at close distance from each other. The motion of the manipulator to rotate the shafts with rigidly fixed on them drives. The perforated edge of the disk periodically crosses the flow of radiation from the emitter to the receiver. As a result, the output of the receiver is obtained a pulse train which is supplied to the chip-controller. The faster you will move the mouse the faster will rotate the shafts. There will be a greater pulse frequency and the faster the cursor moves on the monitor screen. Any manipulator has at least two buttons. Double-click you click one, usually the left starts the execution of the program or file, clicking on another launches a context menu for the appropriate situation. The device is intended for PC games can have 5-8 buttons. Clicking on one of them, you can shoot the monster with a grenade launcher on the other to put a rocket to third to empty the old hard drive. Modern mice have a scroll and a scroll wheel which is very convenient when viewing a large document. To view the document only

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