

ABSTRACT

Flash disk is kind of data storage device which is faster , lighter, smaller , with a larger capacity , as well as more reliable because it has no moving parts so it is portable with greater capacity, flash disk makes easy for someone to store data in small size , there are a lot of data that can be carried in softcopy. The ease flashdisk besides that size is easy to carry, is the ease of copying data if the data contained therein. To copy data, it takes a PC (Personal Computer) or laptop as the host. However, some time, often when requiring flashdisk to flashdisk data transfer, media which is used as the host medium (mediator) does not exist. Thus, these data can not be quickly sent to the flash disk destination.

In this thesis, made a host device that has functions to display, copy and delete files on flashdisk. The device consists of several blocks , there are interface USB flash drive block using FTDI Vinculum VNC1L which is used as a USB host controller , microcontroller ATmegal28 as a regulator of the system works as a whole and LCD block is used to display the menu in microcontroller application. Device test used hyperterminal to determine the function of command on the USB host controller firmware, then that command is sent through microcontroller program by C language and the output of microcontroller program displayed on LCD shield graphic.

From the tests performed in general FTDI VNC 1L module can be used as USB hosts that can perform data transfer, so that it can contribute as a substitute for partially PC function as host. Data transfer time required relatively longer about 1-60 seconds, directly proportional to the large capacity of data held. This is because a bit of microcontroller memory. Meanwhile, device can be operated about ± 20 minutes using 3 batteries 9 Volt are arranged in parallel.

Key Words : flash disk, host, transfer