

Pendrive To Pendrive Data Transfer Without Using Pc

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Abstract- Now a day's portability is most important. So to achieve this, we are designing such a system which can carry anywhere. Using this system we can not only transfer the data but also we can see the transfer of the particular file which we want to send by using LCD display. Now a days to transfer a data between two Pen drive we use PC or laptop, but it is not always possible to carry such a large device only for the data transfer. So to overcome this problem we design a system which is more compact. In our project we are transferring the data between two pen drives without using any computers or laptops.

Keywords- Raspberry Pi3, LCD unit, Keypad, Ethernet port.

I. INTRODUCTION

Electronics plays a vital role in our daily life. It is a key in making this world a small and making everything happen at our finger tips. In the present world of electronics there are various ways are present for storage of any type of data electronically, today's most used and flexible is pen drives. But data transfer between them related with computer, and we are not able to share files between two USB flash drives when user is away from computer. So we wanted do a project which is complete blend of hardware and software. This project is used to direct data transfer between USB flash drive to USB flash drive without connecting to computer.

The disadvantage of using USB Flash Drives is that it requires a personal computer or a laptop to initiate file transfers between one another. As a solution of this disadvantage of USB pen drive, our research project aims to develop a device that allows the file transfers between two USB BOMS (bulk only mass storage i.e. Mass Storage Class Devices) without use of personal computer or a laptop.

We propose to provide two options:

- a) Complete data transfer from one flash drive to another flash drive.
- b) Selected file is transfer from one flash drive to another flash drive.

Today the need for the portable devices is well known to us. We can easily find the USB and its applications everywhere around us. The applications of the USB are

computer peripherals such as keyboard, pointing devices, digital cameras, printers, portable media players, disk drives and network adapter, both to communicate and to supply electric power. It has become common place on other devices, such as smart phones, PDAs and video game consoles. USB has effectively replaced a variety of earlier interfaces, such as serial and parallel ports, as well as separate power chargers for portable devices. But the main disadvantage of USB devices is that it requires the use of PC for their operation.

Carrying a PC just for the sake of data transfer is not affordable these days in the age when people want all devices to be handy. Moreover, transferring data via a computer involves a lot of power to be wasted. Also, the threat of viruses and malware has made the life of computer users more complicated. These viruses get activated as soon as the device is plugged into the system and get copied along with other data from one ash device into another. So a solution is provided by means of implementation of a small device that carries out the required task. The small footprint and ease of portability makes it a choice for the data transfer. This device will help the user to select a particular data file from the mass storage device connected to one of the ports and transfers it to the other mass storage device using some controls like list, copy provided on the front panel.

II. OBJECTIVE OF THE SYSTEM

Objectives of the system are as follow:

- To transfer data without the bulk personal computer.
- To have a portable and handy product that can be used for data transfer.
- To explore more on PHYTHON C language and applying it to the day to day problems faced at workplaces.

III. RASPBERRY PI-3

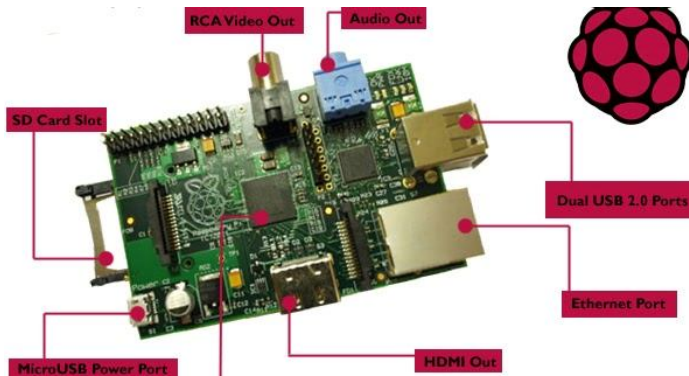


Figure 1.

IV. BLOCK DIAGRAM OF SYSTEM

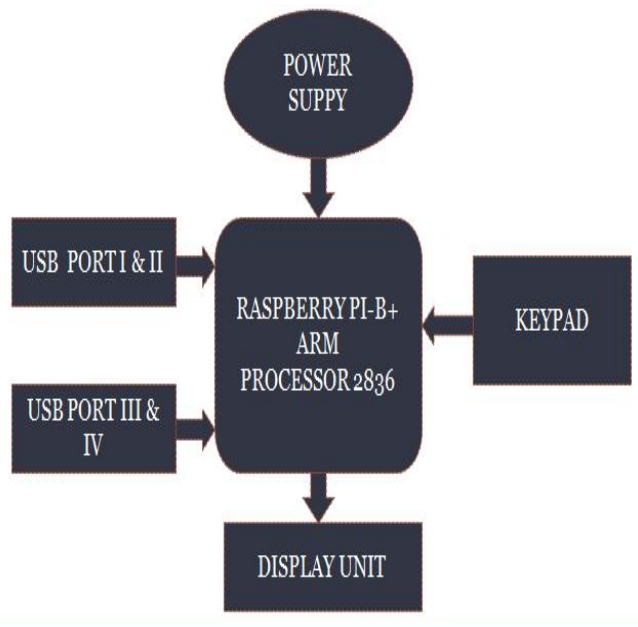


Figure 2.

The Main Features of the Project:-

- 1) The project work includes touch screen in place of graphical screen and key pad for selecting the data which makes human work easier by drag and drop method.
- 2) Data can be transferred from first pen drive to second or second pen drive to first.
- 3) Data transferring speed is much faster up to 12 Mb/s
- 4) Power consumption is also less.
- 5) The Project can not only transfer the data but also can format, delete and copy any particular data from one pen drive to other or vice versa.

V. HARDWARE REQUIREMENTS

- LCD Display
- Power Supply

- RASPBERRY PI-3 MODULE
- CONNECTING WIRES

VI. SOFTWARE REQUIREMENT

- PYTHON 2.6v
- PYTHON IDE-2 SOFTWARE
- Proteus 8.1

VII. ADVANTAGES

- Portable
- Feasible
- Requires less power and a power saving device
- Less time required for data transfer

VIII. FUTURE SCOPE

The Data transfer is not a much sort out topic. But making a portable and feasible device is a must in today's technology.

The basic component used, Pen drive can be designed in such a way that it can transfer the data via wireless or using technology like android applications. An application can be developed which can transfer data using an internet connection or without it.

There can also be changes in the Raspberry-PI by connecting it to the GSM based system to transfer data.

IX. APPLICATIONS

- Data transfer is made easier and portable.
- USB to printer interface.
- Touchscreen based GUI.
- Wireless connectivity Bluetooth and Wi-Fi.
- Can be connected to other devices like TV, DVD player, Camera etc

X. CONCLUSION

Transferring the data through USB in today's scenario is the most common task. But the problem is that for transferring the data to a personal computer or laptop is difficult if u don't have any of them. It is affordable to purchase a USB data drive than purchasing a laptop or PC. Therefore we came up with a RASPBERRY PI-B based device which can transfer the data between two USB data drives without the help of PC or laptop.

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