

# ITWIN

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**Abstract:-**This research paper is about a flash drive known as iTwin which is a USB (Universal Serial Bus) device that can be used to remotely access data of two computers worldwide. It is similar to cloud storage in which we can access data from wherever we need it and is also similar to a USB flash drive but pen drive has a drawback that it can easily be stolen or misplaced. Overcoming both the problem of cloud storage and USB flash drive iTwin is made. In this research paper I have studied about the uses of iTwin and how to use it.

**Keywords:** iTwin, remote access, USB flash drive.

## I. INTRODUCTION:

iTwin is like an USB flash drive which has two ends to remotely access data of one computer in another computer. It is a secure device. It is developed by company named iTwin. The limitation of iTwin is the speed of your internet connection. If you do not have high speed connection then it will be difficult to do work. It is easy to carry. It requires 512MB RAM for working and 15 MB hard disk space. Port supported is USB 2.0. It supports Mac OS X computers and windows. In a seminar the inventor told that how iTwin gets its name.

## II. HOW ITWIN WORKS:

First you connect iTwin with your computer then a pop up window will appear it will be similar to the one which you see after connecting a USB flash disk. Drag and drop the files which you want to use. Leave one part of the iTwin connected to your computer and detach second part of iTwin and take it with you. When you have to use those files then simply connect the other half of the iTwin with other computer then you can edit and view those files.

## III. INVENTOR OF ITWIN:

iTwin technology was developed by Lux anantharaman. He has done his graduation in electrical and electronic engineering from IIT Chennai and his masters from IISc Bangalore. He has worked with institute of system science, Kent ridge digital labs and with institute of infocomm research.



IV. ADVANTAGES OF ITWIN

A. *No limit on storage capacity:*

In iTwin there is no limit on the amount of data we can store in it. The only limit in it is the capacity of hard disk of your computer

B. *Remote access to data:*

With the help of iTwin we can remotely edit, delete and share data from anywhere.

C. *Backup of data:*

While travelling if your storage is full than you can backup your files on home computer and can free your storage space.

D. *One time investment:*

In iTwin we do not have to pay fees for cloud storage. It is our one time investment and we do not have to pay any additional charges after that.

E. *Data security:*

In iTwin you cannot access data until you have other half of iTwin and additionally you can also set a password so that anyone who has other half of the iTwin cannot use it. It enables secure connectivity between two computers. If in case you loose its other half then there is a feature through which you can disable the remote connection.

F. *Password support:*

ITwin can have password of any length and of any character. If you forgot your password than you can simply change it by attaching both half of iTwin with your computer. It does not require any technical assistance.

G. *No temporary files:*

If you are using a computer that do not belongs to you, than after removing the iTwin all the files will be removed automatically from that computer and your data will be safe.

V. LIMITATIONS:

1. It does not provide access to whole desktop instead it provides access to only pre selected files. If you forgot to drop important files in WE pane then it is not possible to access them.

2. If the home computer is switched off files can't be accessed. Home computer should always be switched on with one half of iTwin.

3. Files should be saved at one end to access them because we cannot send or receive files if we are currently working on them.

VI. COMPARING USB AND CLOUD STORAGE WITH ITWIN:

A. *USB:*

*USB is an abbreviation for universal serial bus. USB is a storage device which is very compact and easy to carry. It comes in different storage capacity like 2GB, 4GB, and 16GB. its small size can be a drawback also because due to this it can be easily lost or stolen.*

B. *.CLOUD STORAGE:*

Cloud storage is virtual storage in which we can do backup of our data online. Due to online storage of data it can be hacked easily or can be stolen.

BASIS OF COMPARISON	I T W I N	U S B
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<b>S t o r a g e</b>	Storage capacity of your computer will be its storage capacity.	1GB – 512 GB
<b>P r i c e</b>	1 3 0 0 0	500-28000
<b>Remote access</b>	Y e s	n o
<b>S e c u r i t y</b>	Data is secure with password	Data is not secure if USB is lost
<b>Encryption of data</b>	AES 256 Bit	USB does not support encryption.

BASIS OF COMPARISON	I T W I N	CLOUD STORAGE
<b>P r i c e</b>	1 3 0 0 0	80 rupees/ GB/ Month
<b>Storage limit</b>	n o	Y e s
<b>Fees for monthly usage</b>	n o	Y e s
<b>Restore of deleted files</b>	Deleted files can be restored	Deleted files can't be restored.
<b>S e c u r i t y</b>	It is secured with password and also have remote disable.	Is secured with password only and chances of hacking are there.

## VII. CONCLUSION:

ITwin is ideal for those who work from office as well as there home. There is no need to carry USB and worry about data theft. It do not have limit on the amount of data it can store. It is easy to access data in remote areas. It is inexpensive as compared to USB and cloud storage. It has features of both USB and cloud storage.

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