

# Tablet PC With Rechargeable Pen

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## ABSTRACT

I have designed this product for the daily use of the students and a step forward towards saving of papers in the form of notebooks that we use daily in our classrooms for making notes. It will replace the paperback notebooks with a tablet PC or electronic notebook whose screen can be used as a page for writing with the pen supplied with the tablet. The pen uses the simple concept of physics i.e. Friction to recharge its batteries which can be further used as a charging source for the tablet. The notes can be used and carried every-where, it will cut the cost of buying notebooks and carrying them. One way to reduce forest loss is to conserve the trees by saving papers, to tackle this problem I got this idea in my mind to replace the notebooks with rechargeable and environment friendly tablet PC. The aim of my idea is to (1)reduce paper wastage (2)bring all notes under one tablet PC(3)conserve energy. This device makes the class notes easily accessible and available at any place and a step towards saving paper and environment. The product is designed keeping in mind the basic needs of study i.e. writing, viewing and browsing pages from internet.

**Index Terms :-** Friction , ASHAAN , Cortex processor, Micro-SD

## 1.INTRODUCTION

In today's world, environmental degradation has become a great problem. Forest cover around us has minimized to an alarming level, so there is a need to save the trees. One way to reduce forest loss is to conserve the trees by saving papers, to tackle this problem I got an idea to replace the notebooks with rechargeable and environment friendly tablet PC. The main feature of tablet is its lesser price and on the go recharge if there is no electricity. It is designed keeping in perspective of students and only for educational purposes. It will provide a platform for gaining knowledge through saved class notes and internet browsing.

## 2.PRODUCT DESCRIPTION

1.) **TABLET PC :-** It has a Black colored Fiber body with a screen size of 7 Inches. It has a resistive screen with a resolution of 1024 X 768 pixels. It comes with a CORTEX A\*, 1.0 GHz Dual core processor, 512 MB ram, 2 GB internal memory. Its operating system is ASHAAN version 1.0. The operating system comes in only one language i.e. English. Other features like micro-SD card slot, Wi-Fi are given. Softwares like browser, PDF and Document reader are installed. The tablet has 2000 mAh capacity battery which gives a backup of up to 6.2 hours on full recharge. Writing can be done with the pen only.

2.) **PEN:-** The recharging source of the product is a cylindrical pen which is around 6 Inches long, 1cm

in diameter and weights 25 GMs, its tip contains a metal sphere which acts as a medium for energy production. A 1.2 V and 500 mAh lithium ion battery is fitted inside the pen for storing energy.

### 3. PROCESS DESCRIPTION

The device consists of two parts i.e. Tablet and pen.

Tablet is used as a writing pad, for viewing pages and acts as a medium for production of energy through friction .

Pen is used for writing in pad and as a recharging source for tablet.

When tip of pen strikes the tablet while writing friction is produced and the energy is produced due to movement of electrons and potential difference creation, the energy generated is stored in the lithium ion cell of the pen. The collected energy in the pen is further transferred to the tablet through charging slot in tablet. This can be used again and again like renewable energy.

The tablet can be used for making hand written notes and arranging them in an organized manner for later use. The notes can be used and carried every-where, it will cut the cost of buying

notebooks and carrying them. It can be also used for internet surfing and viewing pages and documents on the go.

### 4. CONCLUSION

If one wants to get a better and organized way to handle class notes and conserve the trees, one should refer to the tablet, as it is environment friendly and more easily rechargeable. It helps you to carry the notes anywhere and everywhere without any difficulty making your study possible on the go and friendly.

### 5. ACKNOWLEDGEMENT

I would like to thank everybody who supported me in completing the project, the authors for their references.

### 6. REFERENCE

- [1] Referred RAHUL SINGH's ideas to have a pen that recharges a small battery while one writes. The pressure on the tip of the pen while writing is being used to charge a small battery. PATENT NO. 1245/KOL/2010