

Room Configurations



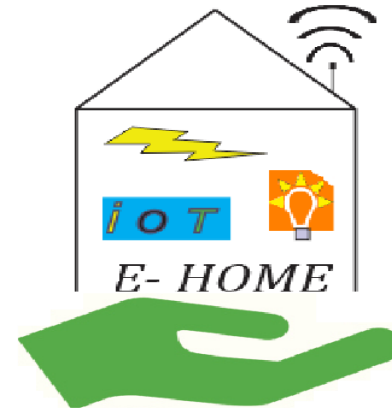
2 BHK Apartment

3 BHK Apartment



4 BHK Apartment

eHome: An Integrated Solution for Home Automation and Energy Conservation
A Proposed Startup from IGDTUW



Contact Details

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Targeted System:

- A. Basic Solution
- B. Hybrid Solution

Key Aspects

- **Centralized control** of lighting, HVAC (heating, ventilation and air conditioning), appliances, security locks of gates and doors and other systems.
- **Increased quality of life** for elderly and disabled persons who might otherwise depends upon someone else for their day to day activities.
- **Convenience for end-users** to manage their household activities.
- **Reduction of energy consumption** and provision of improved **home safety**
- **Prevention against criminal activities** such as robbery, theft, etc.

System Features

- **Miniature nodes** deployed at different locations in a room/house
- **Cost effective and affordable** system for Indian users.
- **Anytime, any level scalability**
- **Heterogeneous nodes** for meeting low cost criterion
- System to operate on a number of **available communication interfaces with ease**

A. Basic Solution

eHome Basic solution	Relay PCB for 3 control	Relay PCB for 2 control	Room control block	Entity control block	Main Control block *	2BHK	3BHK	4BHK
Raw material cost	110/-	80/-	1000/- per room	1200/-	Raspberry pi base system 4500/-	110x3+80x3+1000x4+1200x2+4500=11,470/-	110x4+80x4+1000x5+1200x3+ 4500=13,860/-	110x5+80x5+1000x6+1200x4+4500=16,250/-
Market cost						22,940/-	27,720/-	32,500/-

B. Hybrid Solution

eHome Hybrid solution	Relay PCB for 3 control	Relay PCB for 2 control	Room control block	Entity control block	Main Control block *	2BHK	3BHK	4BHK
Raw material cost	110/-	80/-	1000/- per room	1200/-	Raspberry pi base system 4500/-	110x3+80x3+1000x4+1200x2+5500=12,470/-	110x4+80x4+1000x5+1200x3+ 5500 = 14,860/-	110x5+80x5+1000x6+1200x4+5500=17,250/-
Additional sensors Fire, Smoke			1000/-	1000/-		6000/-	8000/-	11,000/-
Market cost						30,940/-	37,720/-	45,500/-