



**Proposal for ELECTRONIC GERIATRIC CARE ATTENDANT For
Elderly Living Independently**

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Preface

The Active Ageing Index 2005, published in the State of the Elderly Report commissioned by MCYS, showed that in 2005, nearly 90% of seniors aged 65 – 69 had achieved moderate levels of active ageing, with 5% scoring “high” and only 6% having “low” levels of active ageing². I think such results are positive. The Index was constructed based on data collected for the 2005 National Survey of Senior Citizens. Thus, the Index presented a picture of the state of active ageing in 2005, and not in 2010. So in terms of active ageing, I think we have done quite well in 2005.

More of our seniors are living alone. About 4% of seniors above 75 lived alone in 1995. This rose to 7% in 2005. This could reflect the growing change in expectations of the elderly and their married children wanting to maintain separate households, the increasing prevalence of “global” family structures where more adult children are living and working abroad, and the rise in the number of singles among the elderly. In 1995, 4% of men aged 65-74 and above either never married or were separated from their spouse whereas by 2005, it is estimated to be 7%.

As such market for elderly care distress notifications products are in increasing demand due to increased in population for the silver community.



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Project Requirement:-

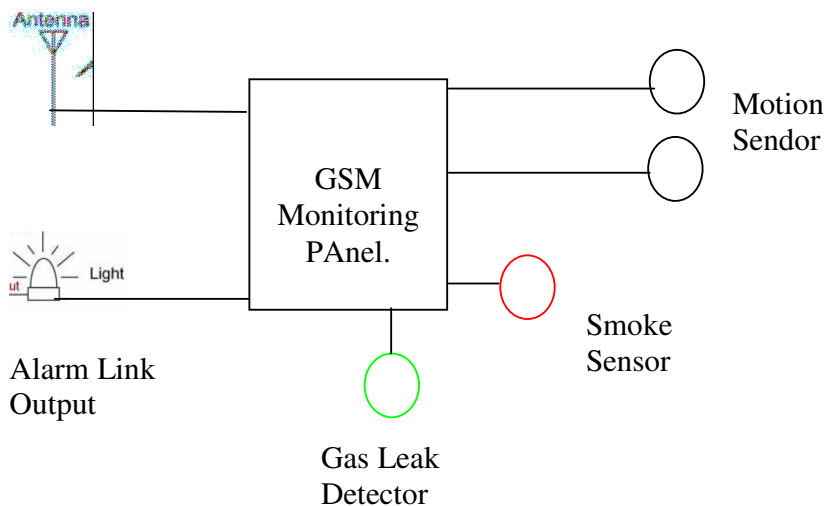
To provide a 24/7 monitoring equipment to ensure there are activities around a monitored elderly place in between the space when a volunteer visit and his/her next visit to the same place.

RAA Project Proposal:-

- (1) Proposed using Motion Sensor to detect movement around the house.
- (2) Proposed a silent alarm solution by method of SMS to volunteer caretaker should there be no movement around the house for more than 12 hours.
- (3) Additional Gas leak and Smoke sensor for gas and fire hazard.
- (4) An interface for SOS call direct to caretaker should there be an emergency.
- (5) An interface for voice communication between subject and caretaker even in the time of non-emergency cases.
- (6) System works base on Telcos(Propose Starhub or M1) company top-up GSM SIM Card line for low communication charges.

RT-KP120

System Block Diagram



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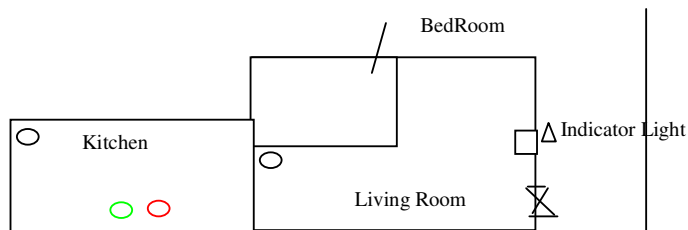
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System Achitecture:-

- (1) Motion Sensor to detect movement in a 12hours loop. If none of the motion sensor triggered in the 12 hour loop. GSM Monitoring Panel will send an SMS alert to predefined phone number.
- (2) A 24/7 monitoring for Gas leak and Smoke Sensor. If any of this 2 sensor is activated GSM Monitoring Panel will be triggered and an SMS Alarm will be sent to predefined number.
- (3) SOS alarm. 2 method of triggering an SMS alarm. Either by the Panel Keypad or by Remote Control which is small enough to be placed in the pocket . SMS Alarm will be sent to predefined number.
- (4) An alarm link Output can be connected and placed outside the house. In case of and triggered distress a silent alarm with indication light can be triggered.

Proposed Installation Designed Of System:-



Above Diagram is a mock drawing for the proposed installation.



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Revtech System Price Breakdown:

System Cost:-

GSM Monitoring Panel :- SGD340
2x Motion Detect with
Pet Immunity : SGD 150
1x Wired Photoelectric
Smoke and Heat Detector : SGD 80
1x Natural Gas and LPG
Detector : SGD 80
Installation Charge : SGD200
Total Cost(Inclusive of Installation): SGD850

Disclaimer:

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