

TELEPHONE REMOTE CONTROL

MOHD RIJAL BIN SHUKRI

2002415966

MOHAMAD AFENDI BIN MAHUSSIN

2002416644

DEPARTMENT OF ELECTRICAL ENGINEERING

MARA UNIVERSITY OF TECHNOLOGY

PENANG CAMPUS

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ABSTRACT

In modern technology, many devices were created to improve our life. In this project the Telephone Remote Control (TRC) system for smart-home has been developed. The purpose of this project is to control appliance in the house automatically by using telephone line. For example windows, air conditional, light or fan. TRC used telephone line to switch appliance "ON" or "OFF" by selecting a proper number which refer to specific appliances. However, it's unable to control many switch at the same time. It can be controlled using a hand phone or that we call to house phone. Digits "1-6" at the hand phone are use as a switch. It refers to two appliances or switch that we want to control in the home. The circuits of this device construct using many main ICs. These ICs play the important role to receive the input and produce the output in logic system either "1" or "0" to transistor. The transistor act as the switch when receive high signal. Then the switch will be on and current from the source flow to the relay and the circuit will be in close loop. Thus the telephone can use to switch "ON" or "OFF" the appliances also while being used for normal conversation. Once the switching operation is over, digit "6" is dialed turn "OFF" both switch. The advantages of this TRC system are can be used to control from a far distance compare to infra-red as long as there have telephone line, multiple appliance can be controlled using the TRC and saving time, low cost, improve and make our life easier

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CHAPTER 1

INTRODUCTION

1.1 Background

Nowadays, there is a rapid development in science and technology. Many devices were being created to improve our life quality easy and comfortable. One of the best examples of use of technology is in communication. Many devices were being used nowadays such as mobile phone, pager and satellite, but all these communication devices focused on the communication between human. In this project, a new communication method was being developed or set-up for smart-home control. This device use telephone to control some function in our house; it is called Telephone Remote Control (TRC). This remote is controlled using telephone line to switch "ON/OFF" appliances. So, if we want to switch "ON/OFF" any switch in our home, we just need to dial the key-pad. This device will operate when we dial to house phone and we here the ring-back tone. After that, wait for a few second until the tone is gone and we can dial digit "1-6" to control switched appliances. This device can gives us advantages such as saving our time, our energy and make our daily life easier. But this remote can't switch more than one appliance at the same time.