

ABSTRACT

PSTN (Public Switched Telephone Networks) represent as telephone system is very important for many of family communication facilities at this present time. Because tha we need to create a device which can to protect every at home telephony from anyone who haven't autory to use it. This research has purpose to design a device as long distance call protector with AT89C51 microcontroler system.

Research already done with four step experiment as first step is design of telephone line interface and the second step is design of long distance call protector with AT89C51 microcontroler system with compatible software then the third step is design of LCD to display dial number. And the last step is combine all step to fix system of long distance call protector with AT89C51 microcontroler system. Connect the handset and telephone set with 2 piece jumper to telecom line for device test.

The result of long distance call protector with AT89C51 microcontroler system experiment is this device can unconnect telephone line when first digit has dial.

Key word: *PSTN , DTMF, Mikrokontroler AT89C51*