ABSTRACT

Growth of information technology at the moment fast so. Where company to service telecommunications service perhaps is obliged to service the consumer phone better. Perhaps always take care of the quality and service freshness to customer. And one of service which must be taken care of by record-keeping of all call number go out at house telephone office both for having the character of long distance and also local. The event of normal out of the sphere telephone invoice limit, perhaps side the customer will do the complain to pertinent company that is by asking for list of detail of call number go out. But usually from pertinent party only give the list of call number having the character of just long distance.

This tool will record a phone activation code for each time pressing the phone keypad to produce tone (tone) that can terditeksi by DTMF, the tone is converted into binary data received by the microcontroller and then converted into decimal data. Decimal data will be displayed on the LCD and will be stored on SD / MMC, to activate the phone at the center appointed by pressing the push button on the tool, so that the resulting data in the form of duration, good destination phone numbers and local calls and can print.

By means of this can know the call number go out and duration of discussion time, before party of customer do the claim to pertinent company, in the event of limit of telephone invoice exceeding normal boundary. This appliance is consisted of by the network of data recorder which can save of call number go out the, time of start discussion till finish discussion and duration discussion into SD/MMC by using PC serially is which is through microcontroller ATmega16. This tool has a storage capacity reaching 1GB also earn direct also read in By means of this hopefully can assist all customer for the monitoring of expense phone the house and office

Key words : Phone, Mikrocontroller ATmega16, LCD, SD/MMC, Push Button and RTC