

ABSTRACT

Microcontroller ATmega8535 is one 8 bit microcontroller made in Atmel's AVR family of mass-produced in 2006. ATmega8535 AVR microcontroller has been equipped with an internal ADC, EEPROM, Timer / Counter, PWM, analog comparator, and other supporting components. With the features and components contained in this ATmega8535, ATmega8535 microcontroller can be used for various applications with a compact form but with the ability to be reliable. one of which is utilizing ATmega8535 for temperature monitoring at the server.

To detect the use temperature sensors that are sensitive to changes in temperature. The temperature sensor is an electronic component that will alter the magnitude of the temperature received into a voltage, which is then read by the microcontroller for processing into temperature data and displayed on the LCD. Temperature sensors have been widely known and used for sensing applications is a temperature sensor LM35 from National Semiconductor. the system will send the captured temperature to be displayed on the LCD, if capture the temperature exceeds the specified limits, the system will automatically turn on the fan and buzzer with relay and send capture temperature to a mobile phone administrator by utilizing the SMS gateway.

Keywords: Atmega8535, LM35, SMS Gateway