

## MONITORING AND CONTROLLING OF TEMPERATURE USING CAN ARCHITECTURE

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### ABSTRACT

CAN is a two-wire, half duplex, high-speed network system and is well suited for high-speed applications using short messages with the help of controller. The CAN transceiver is used to transmit and receive data. These Transceivers are specially designed for high-speed differential data transmission between the CAN controllers and the physical differential bus lines. This paper discuss in detail about temperature monitoring and control based on the CAN protocol. The temperature changes of LM135 sensor are measured by the inbuilt ADC and transmitted to the other node using the CAN Bus. Then other node will display the result on the LCD and based on the temperature control action is takes place in the temperature node.

**KEYWORDS:** Controller Area Network, Microcontroller, Nodes, Protocol, Transceiver



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