

ABSTRACT

A computer case is the outer part that protects the internal components of a computer and provides structural support. A computer case serves to protect the internal components from dust, moisture, and physical damage. In addition, the case also helps maintain the temperature inside the computer by providing space for the installation of cooling fans. According to Antung Mukhlisin (2016), the case can be likened to a house, which is a box-shaped house where computer hardware is placed, such as the motherboard, hard disk, VGA and other devices. Computer cases that are often used are acrylic and aluminum materials as the main material to protect computer components, this is because many users pay more attention to visuals than the usefulness of the material itself, therefore this research will focus on exploring Aluminum and Copper materials by considering the function of the material to be able to withstand temperature stability in a computer case with a usage time of more than 12 hours. The method used to write the report is Qualitative method with UCD (user centered design) design approach which will produce Mini-ATX computer case design from the exploration of Aluminum and copper materials.

Keywords: *Computer, Computer Case, Aluminum and Copper Material, micro ATX*