





SCOPE

To perform a steady state natural convection thermal simulation on VMC to evaluate the operating temperature of internal components and heat dissipation through given enclosure.

HIGHLIGHTS

- Total heat dissipation from the system was 18.2 W
- Steady state natural convection with radiation
- Package level thermal modeling of processors
- Orthotropic thermal conductivity was calculated to account for directional behavior of PCBs

DELIVERABLES

Detailed thermal analysis report comprising of temperature contours on different components, internal air temperature at different sections and vectors showing convection plumes motion. Also,4 design changes were proposed to customer to improve the thermal performance of system.

BUSINESS IMPACT

- 20% Product Cost Optimization
- Test Time Reduced by 30%