

Product Details:

- ❖ SUPERVISORY Product Family
- ❖ The Customer designs, manufactures and markets standard-setting analog integrated circuits and specialty analog wafer foundry processes for data communications interface and power management applications in computer, communications and control systems.

Project Details:

- ❖ The power products are sold by many competitors, in order to with stand in the market it was necessary that they products cost effective and reliable.
- ❖ Hence it becomes necessary to combine all the products in a single chip and blow the fuses for different options.
- ❖ The requirement was to develop a test program to wafer sort the products and do the final test.
- ❖ In order to make it cost effective, it was necessary to go in for multi site (quad site) sorting.
- ❖ And while blowing the fuse it is necessary to ensure that the fuses are blown properly, because any improper blowing would result in a different option.

Key Highlights:

- ❖ The foremost challenge was in establishing a multi site solution, especially in execution of the communication between tester and prober.
- ❖ The watch dog timer test took a few seconds, which resulted in a practically unacceptable test time. Hence it was necessary to go into a sort of test mode for verifying this function. Going into test mode needed setting of different voltage levels that were not possible in the tester. Hence external hardware circuitry using DAC was designed to generate those voltage levels.

Equipments Used:

Tester : Sentry - 21
Prober : EG4080