

Executive Summary

Team Valence has prepared an initial design that satisfies the requirements as stated by Micron Technology for a P.C. Based SDRAM tester. The design incorporates the use of both hardware and software to successfully address the needs for the project. The software will be used to control elements of the hardware as well as provide a user-friendly graphical interface. The hardware is designed specifically to address the need for the tester to have both battery and A.C. power supply capability. The overall design was designed to minimize cost while successfully implementing all of Microns requirements.

In order to implement the proposed design successfully, Team Valence has already delegated portions of the project to the appropriate personnel. Of course there will be coordination among the team members while completing individual tasks. Team Valence has a decisive design approach that incorporates a task list and timetable. It is our teams hope that Micron Technology is assured of the commitment Team Valence possesses, to see this design come to fruition

The cornerstone of the design is the use of a micro-controller to handle all of the test instructions that directly address the 64 Meg. SDRAM. This approach places most of the processing power required for testing on a low cost external device, allowing the P.C. to concentrate on other tasks. Another distinct advantage to the proposed design is that updates and/or changes to the desired test patterns can be easily done through software. In addition, the low cost of the hardware allows for low maintenance cost in case parts need to be replaced. If Micron chooses to accept the proposed design, it is Team Valences' opinion that Micron will receive a cost efficient yet robust alternative to the current Micro-Mate.

As far as the expenditures for the project are concerned, we have access to all of the major components for the design. Team Valence will cover the expenditures listed in the enclosed budget, which totals \$41.60, and will submit a letter of reimbursement upon completion of the project. If any further purchases above the listed amount in original budget are needed, Team Valence will consult Micron for approval.