Applicant Name: JAZZ SEMICONDUCTOR, INC.

Project Title: Monetizing Broadband Sustainability

Project Type: Sustainable Adoption

Executive Summary

The importance of reliable high speed Broadband service cannot be overemphasized. Today, the information highway has become an ‘www online village” where people socialize, communicate, exchange information and provide and receive services. Many people live and breathe on the web using Broadband access. We lack a nation-wide coverage of fast, stable, reliable, accessible Broadband infrastructure and service. For a nation, this can lead to gradual loss of our leadership position.

Our proposal bundles the implementation of faster Internet Connections (IC) with broader socio-econimical adoption of Broadband in the United States. Our proposal specifically starts by addressing California, but the model can be applied nationwide.

The first challenge of the proposed Project is the availability of reliable, stable, scalable, technologically advanced access to high speed Broadband. The first target of this Project is the implementation and adoption of a scalable technologically advanced Broadband chip using the Silicon Germanium (SiGe) SiGe 500 GHz technology.

The second challenge is to motivate the vulnerable population to adopt the use of high speed Broadband. The second target is to enable remote learning by 1,000 beneficiaries per year in programs aimed at becoming a Certified Broadband Software or Hardware Specialist. Such Certification will not only equip the Program beneficiaries with a highly desirable, well paid profession in a growing market segment, but will also make them into disciples of the Program, assisting in further deployment of Broadband in the US in the future, serving the broader goal of the BTOP.

The SiGe500 Chip will provide the ideal technology platform and vehicle in order to accommodate the rich content traffic cost effectively and efficiently.
The third challenge is to generate sufficient income to continue the Program after the ARRA funded period and potentially upgrade it. The third target of this Proposal is to develop a viable Business Model.

The Applicant intends to hire at least 2 employees, and estimates that the proposed Project will create more jobs with the Applicant, the Participants, and as a result of further Broadband deployment.

This proposal chooses to address people ages 17-28, typically of minority backgrounds, with Median Home Income up to $50,000, with secondary education and limited or no broadband access, and interested to become a Certified Broadband Specialist. The proposal is based on a one year specialization curriculum distance learning provided by the College Partner selected.

In order to encourage and expand Broadband usage by the beneficiaries, and to enable numerous beneficiaries to study under the Specialist Certification Program without the need to construct physical learning facilities in various areas, all specialization curriculum shall be web-provided through a virtual class by a College Partner through an Educational web Portal (the “Portal”). The beneficiaries will be supported by a non-profit Jazz Support Center to be newly established by Jazz for that purpose. The staff of the Support Center will be Jazz employees volunteering as part of their community work. The Portal itself will be supported at the system level by CliniWorks.

The grant will fund the cost of 1,000 Broadband lines and the required servers, and the Virtual classes. The students will be provided with high speed (wireless N) laptops with webcams and with Broadband Boxes incorporating the SiGe 500 GHz Chip. Assuming an average of 4 persons per household, the Project will provide an estimated population of 4,000 persons with Broadband availability.

The Project business model is aimed at generating income to sustain and potentially expand the Project. Income derived under the Sustainability Plan will be sufficient to continue the program following the Grant Period at a rate of at least 1,000 students during each subsequent Year. The Sustainability Plan consists of continued Program management and Portal availability, discounted equipment and services from suppliers, Potential use of Portal by third parties for fee, additional applications (such as tele-medicine), and sufficient bandwidth to support rich content going forward, at ten times faster than the required minimum.

We believe that the Project is innovative and unique because: (i) it monetizes the vulnerable population to go to ‘virtual’ school and earn a certification in the broadband field; (ii) it implements (SiGeS00)
technology on fast IC (iii) The graduates will support increased adoption of Broadband in the US (iv) The Sustainability Plan elements provide a mechanism to continue the Project in the future(v) The Project encompasses all of the critical ‘building blocks’ required and (vi) its viable simple business model.

The Applicant is Jazz semiconductor, inc., a Newport California company and the only “top tier” “pure play” foundry in the US with technological roots going back 50 years. Jazz will be assisted by Avago Technologies, Inc. (San Jose, California), by the University of California, Irvine, by California Manufacturing Technology Consulting (Torrance, California) and by CliniWorks, Inc. (Massachusetts).

An overall time frame of 36 months is planned. The overall budget requested for the Project is $13,204,445. Approximately 86% of the Project and corresponding budget will be utilized during the first 2 years of the Project.