

## Overview

- Able to verify algorithms and optimize the entire SoC design.
- The concurrent driver and software development not only reduced the overall design cycle, but also improved the performance of its TD-LTE solutions.
- S2C's rapid SoC prototyping solutions reduced the development time and risk for the TD-LTE SoC design.
- Leadcore was very impressed with the scalability and cost-effectiveness of S2C's FPGA-based rapid SoC prototyping solutions.
- S2C pre- and post-sales support helped Leadcore in the successful execution of the project development.

## Challenge

TD-SCDMA is a Chinese mobile telephone standard. Leadcore has a deep understanding of the TD-SCDMA terminal technology and the market; having created a number of industry firsts in end-product solutions. Leadcore must always keep up with the challenges of offering complete end-to-end solutions and products for TD-LTE networks, including core, access and test terminals to assist customers improve network performance and facilitate future evolution and development.

## About Leadcore



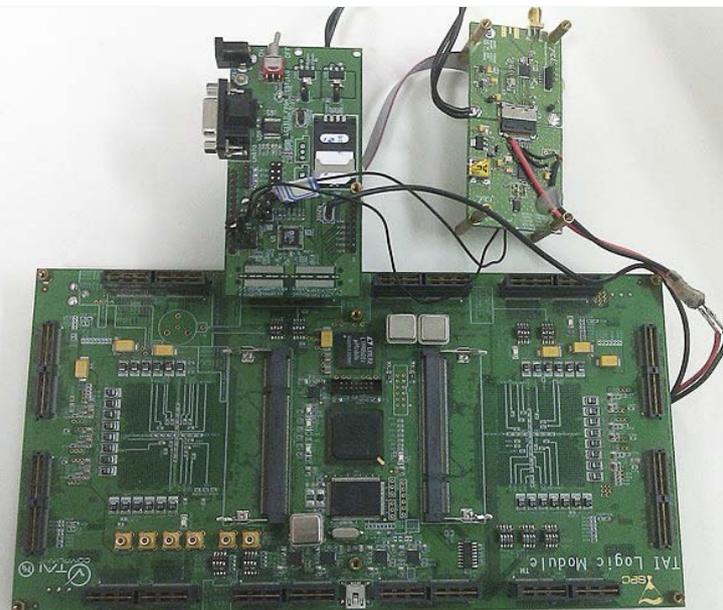
Leadcore Technology Co.,Ltd (Leadcore Tech) is one of the core members of Datang Telecom Technology and Industry Group. The predecessor of Leadcore is Datang Mobile (Shanghai) Communications Equipment Co.,Ltd. As a TD-SCDMA fundamental technology provider, Leadcore Tech has been dedicated to provide the terminal manufacturers and design houses leading TD-SCDMA mobile phone terminal solution and chipsets. The terminal solutions have been adopted by key terminal developers. At the same time of an excellent market performance achieved, together with customers and partners, Leadcore keeps on making contributions to a sustainable development of Chinese communication industry and embracing the world of Chinese communication enterprises.

The headquarters are located in Shanghai, and Leadcore has more than 1000 employees in the world. Its TD-SCDMA chip and integrated solutions, covering the characteristics mobile phones, smart phones and converged end-product, providing mature and stable, comprehensive breakdown of product program selection for more than 40 global terminal manufactures.

Leadcore adheres to innovation to create value for customers, believes that technology's charm comes from the significance of the public and tries to become the world's leading chip and mobile internet solutions provider. Leadcore is committed to fundamentally improve and enrich people's lives.

"We evaluated a number of FPGA prototyping providers and found that S2C's solutions to be extremely scalable and cost-effective. What's more, the quick response of S2C's support team made a deep impression on us."

Said Mr. Pei.  
Testing & Support Dept. Manager



“As a leader in TD-SCDMA and TD-LTE industry is full of challenges because the technology and speed requirements are more and more complex.” Said Mr. Pei, Testing and Support Department Manager. “ We need a scalable, stable and flexible prototyping system for the sub-system verification and software debugging.”

## Solution

“We liked the fact that S2C’s Prodigy Logic Module is so scalable and flexible. We were able to verify the sub-system and develop the software simultaneously while taping out the chip. Also, we were able to put the whole system in the Prodigy Logic Module to verify the logic.. Our first attempt took some time, but within the quick response and advises of S2C’s AE team, we now can quickly build the prototyp verification system for the following projects.” Said Mr.Pe.

“Large capacity, high scalability, cost-effective and quick response, enable us to verify, optimize and perfect the algorithms and greatly improve our overall efficiency. Using S2C’s Prodigy LM prototyping system enables us to get to market earlier.” Said Mr.Pe.

## Results

“By implementing S2C’s rapid SoC prototyping solutions, Leadcore can quickly build its TD-LTE SoC prototyping system or sub-system. Also we can minimize the risk of hardware failure.” Said Mr.Pe. “Now our engineers can focus on the algorithm research and implement instead of debugging our own prototyping environment. S2C’s solutions and AE support really reduce the design cycles and risks. We are looking forward to building a long-term cooperation with S2C. We are working closely with S2C in developing new debugging methods for our future designs.”



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