

# Customer Success

## *SOC integration and timing closure*



Celestial Website: <http://www.celestialsemi.com>



Tallika Website: <http://www.tallika.com>

### Corporate Profile

---

Celestial Semiconductor is a fast growing company focusing on delivering solutions for the China's domestic digital TV market. Celestial Semiconductor Inc. (Celestial) was founded by a group of leading pioneers in the worldwide semiconductor industry, which combines top technical and business expertise in all major parts of the industry. Leveraging on its top-level in-house expertise in digital video/audio signal processing, network/communication, analog/mixed signal, RF and other design fields, the company offers advantageous design solutions to its customers. Celestial has established R&D centers in Beijing, China and Silicon Valley, USA.

---

### Business Challenge

---

Ensure first-silicon-success. Accelerate TTM for Celestial's products.

---

### Results

---

- Tallika Professional Services partnered with the Celestial team at a critical time in the project, and were able to accomplish all the goals of the engagement in the areas of SOC Integration leadership, timing closure, and DFT. In the process, they also contributed in training the Celestial team members in those processes.
  - Tallika successfully deployed Celestial's SOC flow and customized it to fit specialized needs, such as microprocessor core hard-IP integration.
- 

### The Celestial/Tallika Approach

---

Celestial needed to find a partner that would not only augment their team with the tools and expertise to meet their time-to-market demands, but also to come in and 'own' the challenges in the tapeout flow. In particular, they were looking for a company to help them create a state-of-the-art SOC Timing Closure and Integration flow. After speaking with several vendors, Celestial chose Tallika. Tallika collaborated with Celestial and developed technology that can be leveraged on future tapeouts. This high-touch, hands-on consulting engagement provided a platform for rapid customization of Tallika's SOC flow for the special needs Celestial had. Tallika was responsible for delivering on Design Planning, Place and Route, DFT and STA on our multi-million-gate design.

Mention project duration: engagement through tapeout.

---

Celestial Comments: Dr. Raymond Leung, Executive Vice President.

---

The partnership with Tallika enabled us jump-start our SOC implementation and get working first-silicon, thus accelerating our time-to-market. Tallika helped put together a world-class, customized solution that fit our needs, worked hard to own our problems, and solved them through the tapeout and foundry interface for mask database review. Our team is now better trained for the next project. The relationship gave us tremendous value for our money, and we were very impressed with the skill depth and working style of the consultants involved: Tallika has some of the best consultants in the industry, and we would strongly recommend Tallika to design managers and executives considering outsourcing or in-house consulting.