

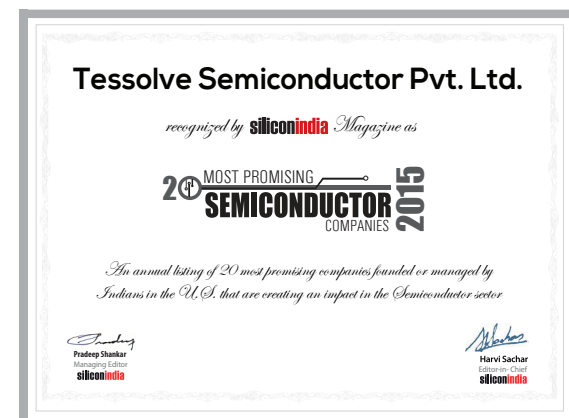
20 Most Promising Semiconductor Companies

The semiconductor industry came to the forefront of the technology drive with its central theory of devising electronics better and cheaper than what redefined state-of-the-art few months earlier. It led to the modernization of gadgets and devices, emphasizing on the durable contingent mechanism that further stimulated the world to anticipate for more reliable devices. With the course of time, these devices shrunk in size leaving the trace of old predicaments for finest and fastest equipments in minimum budget. Right from transistors, solar cells to silicon controlled rectifier and digital and analog circuits, the industry reflected the three dogmas of smaller, faster and cheaper, dignifying the rising call for even more refined and economical semiconductor devices.

Today, computers are transforming into laptops and further to handtops, justifying the industry's potential to acquire the intelligence of inducing more and more transistors onto the chip. The industry not only altered the technological outlook

around the world but also hit the global market with its outreaching sales across the globe. Many companies around the world, serving semiconductor products, have enlisted their names as top notch semiconductor solution providers. In the last few months, a distinguished panel of the industry's top CEOs, CIOs, VCs, analysts and industry experts including siliconindia editorial board identified the eminent companies that primarily serve the semiconductor industry. They have shortlisted the ones that are at the forefront of rendering revolutionized semiconductor solutions and services.

In the selection process, they delved into the business practices, services and compared them against the industry standards to ensure their eligibility and superior potentials in the semiconductor industry. Therefore, in this edition of siliconindia, we bring to you the "20 Most Promising Semiconductor Companies-2015", featuring the companies creating an impact in the semiconductor industry.



Company:
Tessolve Semiconductor Pvt. Ltd.

Description:
A product development services company that specializes in taking physical silicon to a production worthy chip or take the chip to building a system.

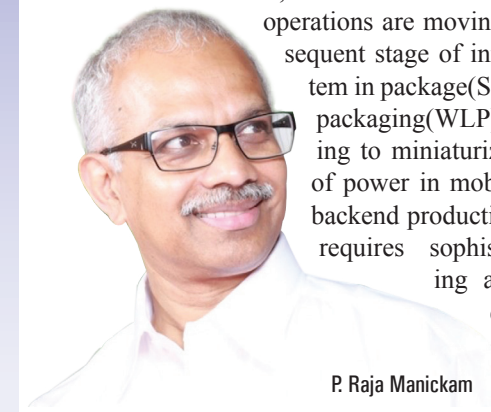
Key Person:
P. Raja Manickam,
Founder & CEO
Srinivas Chinamilli,
Co-Founder & President

Website:
www.tessolve.com

Tessolve

Building Roadmap Expertise for Semiconductor Landscape

We are witnessing a revolution in our life style through the augmentation in mobility, social networking, individual choices, productivity, and even governance. "While most of this can be attributed to the internet and software, the fundamental building blocks are semiconductors," says P. Raja Manickam, Founder and CEO, Tessolve. The semiconductor backend operations are moving towards the subsequent stage of innovation with system in package (SiP) and wafer-level packaging (WLP), which is leading to miniaturization and a boost of power in mobile products. The backend production is complex and requires sophisticated engineering and manufacturing expertise. So, the companies in this sector need to have the proficiency to



P. Raja Manickam

innovate. Nonetheless, semiconductor products must be capable to meet the performance, consistency and scalability while being cost competitive. Tessolve is an engineering partner, helping companies build their build proficiency in the semiconductors landscape while aligning with the customer demands.

Headquartered in Bangalore, India with over 750 employees worldwide, Tessolve is a product development services company that specializes in taking semiconductor designs to a production worthy chip or takes the chip to building a system. These services enable semiconductor companies to ensure good quality productization of their chips in a cost effective manner. "With domain experts in multiple fields, we keep up with technology through engagements with institutions that work closely with industry," notes Srinivas Chinamilli, Co-Founder and President of Tessolve. "Our project mix primarily involves validation of highly integrated complex SOCs that include integrated processor, analog, RF and PIMIC functionalities. It is followed by high precision analog chip validation that includes a whole range of analog-to-digital, analog front ends and power management products. The rest deals with stand alone Radio Frequency (RF) products such as RF front ends, and transceivers," notes Chinamilli.

"Having built the expertise in taking silicon to production, we are building expertise and domain knowledge to build systems using the chips"

"Customers come to us with various requirements. Some of them are startups that do not have any validation capability, and we act as their extended operations team," says Manickam. "Some are large semiconductor companies that have mature engineering teams, but are looking for extra engineering bandwidth to address their increased product pipeline requirements," he adds. An example of this is a top tier semiconductor company that was failing to meet their production demands due to a quality issue at their Asian test subcontractor. The customer turned to Tessolve to find solution to deal with the concerned issue. Though Tessolve got involved at a very late stage, the engineering team was quickly able to narrow down on the issue and offer an enhanced solution ship product that improved the customer's quality of production. "Over the last 10 years, we have provided end to end engineering solutions that have enabled our customers to put over a 100 products to high volume production," claims Chinamilli.

"Tessolve has the capability to provide end to end solutions for semiconductor productization that includes chip design, post silicon validation and system design. These imperative qualities make us completely unique in the market," says Chinamilli.

Going forward, Tessolve wants to build enhanced product engineering for the semiconductor landscape. "We also see a trend where semiconductors companies are turning their products into modules where they want to sell their core solutions with add on products from others. These modules have to work in the field application, and we want to be the gate keeper to ensure that it works," explains Chinamilli. "In the process, we also desire to ensure that if a product is tested by Tessolve, it is as good as GOLD," concludes Manickam. 



Srinivas Chinamilli